



CloudLink 4G M1 Modem Item Code Reference Guide

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1 Item Code Reference

This document provides a list of Item Codes for CloudLink 4G M1 Modem.

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3002	CloudLink Serial Number	CloudLink 4G M1 Modem Serial Number, provided by factory before shipping the modem Default Value : EMPTY STRING	19 character string
3003	CloudLink Manufacturing Date	CloudLink 4G M1 Modem Manufacturing date, provided by factory before shipping the modem Default Value : EMPTY STRING	19 character string, DD:MM:YYYY.
3004	CloudLink Radio IMEI number	CloudLink Cellular Radio module identification number Default Value : EMPTY STRING	19 character string
3011	CloudLink Available Battery Life	Battery gets drained during the CloudLink operation. This item is an estimate of remaining battery life % available. For external power supply item value is 100% Default Value : 100	Min = 0 Max = 100 %
3013	CloudLink Battery Voltage (volts)	When the Modem is battery powered, the voltage typically measured in every 2 seconds when it is in active mode Default Value : 0	
3029	CloudLink SIM SerialNumber	Unique Serial number of the SIM inserted in the modem	String
3031	CloudLink Cellular Carrier Name	Mobile Carrier name (Verizon, etc..)	String
3058	Last Known Signal Strength (dBm)	RSSI - Received Signal Strength Indicator. Last call known signal strength on a network For LTE CAT M1 Radio Good -1dbm to -75dbm ; Fair -75dbm to -85dbm ; Poor -85dbm to -113dbm Default value : 0	Float

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3059	CloudLink IP Address	Last call IP address or Static IP address of CloudLink Default Value : 0.0.0.0	String
3062	CloudLink Radio Module Firmware Version	Radio module Firmware version number	String
3063	CloudLink Radio Module Model Type	Radio Module Model number For CAT M1 it is ME910	String
3080	BLE Firmware Version	BLE module Firmware version in CloudLink	String
3096	CloudLink application Firmware Version	CloudLink 4G M1 Modem application firmware revision.	String
3103	CloudLink Bootloader version	CloudLink 4G M1 Modem Bootloader version	String
3108	CloudLink Date	Date shown by the Modem	MMDDYY
3109	CloudLink Time	Time shown by the Modem	HHMMSS
3115	CloudLink Configuration Saved	This event is logged whenever the configuration change is committed in non volatile memory of the device Default Value : Clear	Clear & Set

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3116	CloudLink Firmware Upgrade Event	Provides the Application firmware upgrade status Default Value : 0 (Not Initiated)	0 Not initiated 1 Initiated 2 In progress 3 Completed 4 Aborted 5 Failed due to CRC mismatch
3117	CloudLink Password Change Event	This event is logged whenever the password is changed for any user account Default Value : Clear	Clear & Set
3119	CloudLink Login Failure Event	This event is logged whenever there is an attempt to sign-in to device using wrong credentials Default Value : Clear	Clear & Set
3120	CloudLink Low Battery Alarm	Low battery alarm is raised whenever the battery is running below a certain threshold value (5.1V), a sufficient wait time (4 hours) is allowed to charge the super-cap inside the battery. During this time, the device will be in sleep mode. Default Value : Not Active	Active & Not Active
3125	CloudLink Last Call Cell ID	During the last call communication with remote host the Base station ID (cell tower) accessed by CloudLink Default Value : 0	String
3128	CloudLink Last call RSRQ (dBm)	RSRQ - Reference Signal Receive Quality. Signal Quality received by CloudLink during the last call communication with remote host Default Value : 0	Floating point

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3129	CloudLink Last call MCC	<p>MCC - Mobile Country Code. Allows Country identification.</p> <p>Unique three digit code assigned and managed by ITU to identify the country which the CloudLink is subscribed to during the last call. For example, MCC 311 is used by USA. Default Value : 0</p>	uint 32 bits
3130	CloudLink Last call MNC	<p>MNC - Mobile Network Code. Cellular Operator Identification.</p> <p>This unique 2 or 3 digit code is used to identify a carrier together with MNC. For example, 480 if for Verizon in USA Default Value : 0</p>	uint 32 bits
3132	CloudLink Last Call RSRP (dBm)	<p>RSRP - Reference Signal Receive Power During the last call the received power level of the signal strength on 4G networks.</p> <p>Excellent : -70dBm -90dBm ; Good : - 90dBm -105dBm Fair : -105dBm -120dBm ; Poor : - 120dBm -150dBm Default Value : 0</p>	Floating point
3133	CloudLink Last call TAC	<p>TAC - Tower Area Code Set of Cell Towers Identification ID in 4G. During the last call Tower Area Code which CL connects/registers to</p>	String
3134	CloudLink Last call duration	<p>Last successful cellular call duration. Default Value : 0 seconds</p>	uint 32 bits

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3141	CloudLink BLE number of bonds	Number of devices or mobile handsets that are paired with CloudLink. CloudLink remembers up to 8 paired devices. For more information see i3082. Default Value : 0	uint 8 bits
3145	CloudLink BLE Passkey	If Passkey security is selected for BLE (see i3085), this item will contain the passkey generated by the CloudLink Default Value : EMPTY STRING	String
3146	CloudLink External Supply Voltage	When CloudLink is external power supplied (i3007), then this item will contain the supply voltage (external) measured by CloudLink. Default Value : 0	Floating point
3148	CloudLink Model Name	CloudLink Model Name defined at factory	String, 19 characters
3149	CloudLink PWA Serial Number	PWA serial number	String, 19 characters
3150	CloudLink PWA Revision Number	PWA revision number	String, 19 characters
3157	CloudLink Low Battery Voltage Alarm Time	The time at which the CloudLink detected the low battery and logged alarm. Default Value : 0 seconds	Min = 0 Max = 4294967295 seconds

RO - Read Only Items																															
Item Number	Item Name	Item Description	Possible Values																												
3160	CloudLink Error Bit-code	CloudLink LED error codes are displayed	uint 32 Min = 0, Max = 4294967295																												
		<table border="1"> <thead> <tr> <th>Error Code Description</th> <th>Bit Number</th> <th>Corresponding Decimal Value</th> <th>Displayed Error Code on LEDs</th> </tr> </thead> <tbody> <tr> <td>Self test failure</td> <td>0</td> <td>1</td> <td>11</td> </tr> <tr> <td>Radio module failure</td> <td>1</td> <td>2</td> <td>12</td> </tr> <tr> <td>Low battery voltage</td> <td>2</td> <td>4</td> <td>13</td> </tr> <tr> <td>SIM card error</td> <td>3</td> <td>8</td> <td>21</td> </tr> <tr> <td>Data connection failure</td> <td>4</td> <td>16</td> <td>22</td> </tr> <tr> <td>BLE fault</td> <td>5</td> <td>32</td> <td>233</td> </tr> </tbody> </table>		Error Code Description	Bit Number	Corresponding Decimal Value	Displayed Error Code on LEDs	Self test failure	0	1	11	Radio module failure	1	2	12	Low battery voltage	2	4	13	SIM card error	3	8	21	Data connection failure	4	16	22	BLE fault	5	32	233
		Error Code Description		Bit Number	Corresponding Decimal Value	Displayed Error Code on LEDs																									
		Self test failure		0	1	11																									
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		Low battery voltage		2	4	13																									
		SIM card error		3	8	21																									
		Data connection failure		4	16	22																									
BLE fault	5	32	233																												
Example: 1																															
Instance : SIM Card Error																															
Modem displays Error Code 21 : 2 Red followed by 1 Yellow with Green as Delimiter																															
Item 3160 value will display '000000008' in MasterLink Desktop Application																															
Example: 2																															
Instance : Self test failure & Radio module failure																															
Modem displays Error Code 11 and 21 : 1 Red followed by 1 Yellow with Green as Delimiter and 2 Red followed by 1 Yellow																															
Item 3160 value will display (2+1) '000000003' in MasterLink Desktop Application																															
Default Value : 0																															

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3166	CloudLink Last Call Cellular Band	CloudLink Last Call Cellular frequency Band Default Value : LTE Band 4	uint 8

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3171	CloudLink Cellular Call Event	Event logged during cellular call Default Value : 0 0	0 No call 1 Callin initiated 2 Callin host connected 3 Callin hangup command received 4 Callin ended due to session timeout 5 Magnetic call initiated 6 Magnetic call failed 7 Callin failed 8 Callout window initiated 9 Callout waiting for client 10 Callout TCP listen failed 11 Callout remote host connected 12 Callout remote host disconnected 13 Callout window ended 14 Callout failed 15 Call failed due To session timeout

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3172	CloudLink BLE Event	Event logged during BLE operation Default Value : 0	0 BLE no connection 1 BLE connected 2 BLE disconnected 3 BLE session timed out 5 BLE abruptly disconnected 6 BLE pairing failed
3173	CloudLink Magnet Event	Event on magnet swipe Default Value : 0 (Not Active)	Not Active & Active
3174	CloudLink Factory Reset Event	Event on factory reset button Default Value : 0 (Not Active)	Not Active & Active
3176	CloudLink Advanced Low Battery Capacity Event	Event on low battery Default Value : 0 (Not Active)	Not Active & Active

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3181	CloudLink FOTA Status Event	This item provides the status of radio FOTA upgrade Default Value : 0 (Not Initiated)	0 Not initiated 1 In progress 2 Completed 3 No upgrade available 4 Download failed 5 FTP initiated 6 FTP connected 7 Failed due to FTP connectivity 8 Failed due to FTP configuration 9 Failed due to missing version in FTP configuration file 10 Failed due to missing firmware file 11 No Version change detected

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3182	CloudLink Last Call Network Status	This item provides the status of last/ongoing Cellular call Default Value : 0 (Call Not Initiated)	<ul style="list-style-type: none"> • Call not initiated • Call initiated • Dialing • Dial failed • Connected to network • Call failed due to no response • Call failed due to data context issue • Call failed due to host not reachable • Call failed due to low battery voltage • Call failed due to network denial • Call data connection active • Call failed due to SIM error • Call failed due to registration issue • Waiting for client • Server listen failed • Call remote host connected • Call failed due to abrupt disconnection • Poor network signal

RO - Read Only Items			
Item Number	Item Name	Item Description	Possible Values
3183	CloudLink Device Type	Used for MasterLink to distinguish between CloudLink 4G Modem or CloudLink 4G M1 Modem This item is 'read-only' and will be further expanded to cover more devices in future Default Value : 2 (CloudLink 4G M1 Modem)	1 - CloudLink 4G Modem 2 - CloudLink 4G M1 Modem
3184	CloudLink Power Source Type	Indicates the type of power source connected to CloudLink 4G M1 Modem Automatically detected by CloudLink and updated when i3005 is reset Default Value : 1 (External Supply)	0 - Dual Battery Pack 1 - External Supply 2 - MiWi Supply 3 - Unrecognized Supply
3185	CloudLink Cellular Service Technology	During the last call to remote host the Cellular service of registered network Default Value : 3 (No service)	0 - 2G 1 - 3G 2 - 4G 3 - No Service 4 - CAT M1
3188	Radio Self test Last Alarm Time	Alarm raised at the time of Radio self test failure Default Value : 0	Min = 0 Max = 4294967295
3190	Cellular Last Active Alarm Time	The time at which the last radio cellular alarm was generated. This item will display date and time Default Value : 0	Min = 0 Max = 4294967295

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3005	CloudLink New Battery Provisioned	User has to set this item when a new battery is inserted. Once this value is set, i3011 resets the 'available battery life' calculation to 99.9% Default Value : Clear	Clear & Set
3006	CloudLink Advance Low Battery Indication	An event is generated when the remaining battery life shoots the value set by the user in this item. Default Value : 30	Min = 0 Max = 180 days
3018	CloudLink Display LED	i3018 Value - Disable then, LEDs do not blink or will be in OFF condition only i3018 Value - Enable then, LEDs are ON/blinking In Continuous Server mode and Magnetic Swipe (will display for 5 min), LEDs are ON and blinking irrespective of the item values Default Value : Disable	uint8 Disable & Enable
3023	CloudLink Access Point Name	Gateway name of the internet service provider. Default : airtelgprs.com	49 character string
3028	CloudLink Cellular Session Timeout	Time after which a session between CloudLink and cellular network is closed/terminated in case of inactivity between the CloudLink and cellular network Default Value : 120	16 bit integer Min = 1 Max = 65535 seconds
3044	CloudLink White List Enable	When Enabled, CloudLink will accept Call-Outs (connections) from the IP addresses configured in the items 3045-3054 Default Value : Disable	Disable & Enable

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3045-3054	CloudLink White List IP Address (1-10 IP address)	Remote Host White list IP addresses 1 - 10	String
3057	CloudLink Session Timeout for MasterLink	In case of no activity/idle state session, timeout of MasterLink application for integrated/standalone connections over any interface Default Value : 900 seconds	16 bit integer Min = 180 seconds Max = 960 seconds
3064	CloudLink Manual APN Mode	When a private static APN is assigned to CloudLink, 'Enable' the value of this item Default Value : Disable	Disable & Enable
3065	CloudLink Serial Port Baud Rate	CloudLink data port serial interface (RS232/RS485) Baud Rate Default Value : 3	0 - 1200, 1 - 2400, 2 - 4800, 3 - 9600, 4 - 19200, 5 - 38400, 6 - 57600, 7 - 115200
3074	CloudLink Dynamic APN Timeout	When a CloudLink unit is used on the Wireless network with a Dynamic APN name, an additional delay is required to get the APN from the Cellular network. i3064 (CloudLink Manual APN Mode) should be disabled. CloudLink to be rebooted to make this item change effective Default Value : 3 minutes	16 bit integer Min = 1 Max = 20

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3075	CloudLink Serial Port type	Defines the RS232 or RS485 operation of the serial port for communicating with a device Default Value : 0	0 - RS232, 1 - RS485
3082	BLE forget Paired Devices	CloudLink remembers up to 8 devices that are paired with it. Once this limit is reached no new device can be connected. This parameter has to be Enabled to clear the list of paired devices and be able to pair a new device. This can be changed either by using an already paired smart phone/mobile handset or by going into level 2 "FORGET DEV" menu of EC350 device. Default Value : Disable	Disable & Enable
3085	BLE Security type	There are 2 types of connection: Just Works and Passkey Entry With Just Works , any device can connect to the modem over BLE, no passkey is required. With Passkey entry selection, pairing occurs only through passkey (password). This must be entered within 40 seconds and can be found on the EC350 in Level 2, "BT PAIRING" menu. If the passkey expires, obtain a new passkey, and begin from the initial step. Passkey entry Bluetooth pairing works only when the CloudLink 4G M1 Modem is used in integrated mode. Default Value : 1 (Just Works)	1 - Just Works, 2 - Passkey Entry.
3095	CloudLink RUID1	Modem Remote Unit ID1	String, 10 characters

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3101	CloudLink UTC Time	When the CloudLink receives a time and date, it is relative to Coordinated Universal Time (UTC), which is similar to Greenwich Mean Time (GMT). Default Value : 0	32 bit Integer Min = 1 Max = 4294967295 seconds
3102	CloudLink Date format	Date format of CloudLink (Month-day-year)/(Day-Month-Year)/(Year-Month-Day) Default Value : MM_DD_YY	0 - MMDDYY, 1 - DDMMYY, 2 - YYMMDD.
3107	CloudLink Firmware Upgrade	Enable/Disable the Remote Firmware upgrade by configuring this item code Default Value : Disable	Disable & Enable
3111	CloudLink Server IP port number	Used when CloudLink is in Continuous Server mode. User configures this parameter to tell the CloudLink on which port to listen on (Call Out mode). This port is configured in the host application like MasterLink or PowerSpring to connect CloudLink. Default Value : 40000	16 bit integer Min = 1024 Max = 65535

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3113	CloudLink Pulse count	<p>CloudLink 4G M1 Modem supports 1-channel pulse-counting input up to 10 pulses per second with a minimum pulse width of 25 mS</p> <p>Modem has a feature to count the raw pulses from an input switch. Redundant pulse counts can be obtained along with the counts from the actual meter measured by the external EVC.</p> <p>To initiate pulse counting, Enable i3136. When i3136 is disabled, the pulse count value goes to zero</p> <p>To initiate from a specific value,</p> <ul style="list-style-type: none"> ▪ Disable the item value (i3136), ▪ Write a value (count number) in i3113 ▪ Enable the pulse count value (i3136) for CloudLink to start pulse counting <p>If CL is power cycled then count resets to zero Default Value : 0</p>	<p>16 bit integer Min = 0 Max = 99999999</p>
3123	CloudLink BLE enable	<p>Item to turn ON/OFF the BLE on CloudLink Default Value : Enable</p>	Disable & Enable.
3136	CloudLink Pulse count enable	<p>Enable this item to initiate pulse count. For more information see Item 3113. Default Value : Disable</p>	Disable & Enable.
3118	CloudLink Ping Interval/Network Health Check	<p>CloudLink Network health check in MiWireless mode Default Value : 300 seconds</p>	<p>Min = 10 Max =3600 seconds</p>

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3137	CloudLink Restore/Reset/Clear logs	<p>This item can be used to clear different logs or restore defaults or do a firmware reset on CloudLink.</p> <p>Writing to this parameter is instantaneous and does not require disconnecting from the modem.</p> <p>1 Restore Defaults-Device Config - Similar to a factory default</p> <p>7 Restore Defaults-Security Config - Clears the SSL certificate, issue time, expiry time</p> <p>8 Restore Defaults-Battery Config - Clears battery configuration : battery type, battery change</p> <p>9 Modem Reset - Firmware reset</p> <p>Default Value : 0 (None)</p>	<p>0 - None, 1 - Restore to Default Device Configuration, 2 - Clear Event Logs, 3 - Clear Alarm Logs, 4 - Clear Diagnostic Logs, 5 - Clear Cellular Logs, 6 - Clear All Logs, 9 - Modem Reset</p>
3139	CloudLink RUID2	<p>RUID2 of CloudLink</p> <p>Default Value : EMPTY STRING</p>	String, 10 characters

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3142	CloudLink Continuous Server Mode	<p>0 = For EC350 or Integrated mode (default), 1 = MiWireless or Continuous Server Mode.</p> <p>In MiWireless mode, when power is ON the modem directly connects to the cellular network and awaits remote host call</p> <p>In EC350 or integrated mode, when the modem power is ON, it will remain in a dormant state until the corrector/EC350 sends an AT command to instruct the modem to wake up and connect the network. (When this item number is changed, restart the modem)</p> <p>Default Value : Disable</p>	Disable & Enable.
3143	CloudLink BLE Start Time	<p>In order to save battery life, BLE connection can be turned OFF/ON (i3123) completely or during a pre-defined time interval of the day.</p> <p>By default, BLE is ON between 6 AM-6 PM.</p> <p>To permanently enable BLE, set Start time = 00 00 00 and Stop time = 23 59 00</p> <p>Default Value : 06 00 00</p>	HH MM SS
3144	CloudLink BLE Stop Time	<p>In order to save battery life, BLE connection can be turned OFF/ON (i3123) completely or during a pre-defined time interval of the day.</p> <p>By default, BLE is ON between 6 AM-6 PM.</p> <p>To permanently enable BLE, set Start time = 00 00 00 and Stop time = 23 59 00</p> <p>Default Value : 18 00 00</p>	HH MM SS

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3167	FOTA FTP Server IP	Remote FTP Server IP address where CloudLink reaches for Radio Firmware FOTA upgrade Default : EMPTY STRING	String
3168	FOTA FTP Server Username	Remote FTP server username where CloudLink reaches for Radio Firmware FOTA upgrade Default: EMPTY STRING	String
3169	FOTA FTP Server Password	Remote FTP server password where CloudLink reaches for Radio Firmware FOTA upgrade Default: EMPTY STRING	String
3170	FOTA FTP Fetch File	For radio firmware FOTA upgrade CloudLink extracts Fetch file (which stores details like new radio binary name) Default: EMPTY STRING	String
3175	CloudLinkPost Callin KeepAlive Time	After Callin is done, CloudLink is active for a defined time period in this item and will be available for remote host connection. Modem acts as TCP server during this keep alive time. Remote User can initiate firmware upgrade Default: 0 seconds	uint32 Min = 0 Max = 86400 seconds

RW - Re-Writable Items			
Item Number	Item Name	Item Description	Possible Values
3179	CloudLink OnDemand FOTA	<p>At next callin and during call-out (instead of waiting for 30 days where the device usually checks for FOTA upgrade), Immediate Radio firmware upgrade can be done when this item is enabled.</p> <p>User has to ensure that remote FTP server is setup and CloudLink has been configured with item values 3180 (Enable), 3167 (IP Address), 3168 (Username), 3169 (Password) and 3170 (Fetch file)</p> <p>Default Value : Disable</p>	Disable & Enable
3180	CloudLink FOTA	<p>When this item is enabled, CloudLink checks every 30 days for radio FOTA upgrade. If disabled radio FOTA upgrade will never happen.</p> <p>Default Value : Disable</p>	Disable & Enable.
3187	Radio Self Test Fail Alarm	<p>This alarm will generate when i3177 enables 'Self Test' but, fails to read IMEI number, Radio Firmware version and Radio Model type</p> <p>Default Value : 0 (Not Active)</p>	Not Active & Active
3189	Cellular Active Alarms	<p>Alarm raised if any of the mentioned scenarios fails during active connection</p> <p>Default Value : 0 (No Active Alarm)</p>	<p>0 - No active alarm</p> <p>1 - Radio power ON failure</p> <p>2 - SIM card error</p> <p>3 - Radio registration failed</p> <p>4 - Radio module not responding</p> <p>5 - Data connection failed</p> <p>6 - Host not reachable (call failed)</p>

Continuous Server Mode Configuration item list:

To configure Continuous Server Mode the below Item codes have to be considered:

Item Number	Item Name
3021	CloudLink IP Type
3023	CloudLink Access Point Name
3028	CloudLink Cellular Session Timeout
3057	CloudLink Session Timeout for MasterLink
3059	CloudLink IP Address
3064	CloudLink Manual APN Mode
3074	CloudLink Dynamic APN Timeout
3111	CloudLink Server IP Port Number
3142	CloudLink Continuous Server Mode
3118	CloudLink Ping Interval/Network Health Check

Integrated EC350 Settings/CNI4 Settings/MiWireless Configuration item list:

To connect in Integrated mode (CloudLink and EC350/CNI4/MiWireless) the below Item codes have to be considered:

Item Number	Item Name
3021	CloudLink IP Type
3023	CloudLink Access Point Name
3028	CloudLink Cellular Session Timeout
3057	CloudLink Session Timeout for MasterLink
3059	CloudLink IP Address
3064	CloudLink Manual APN Mode
3074	CloudLink Dynamic APN Startup Delay
3111	CloudLink Server IP Port Number
3142	CloudLink Continuous Server Mode
3175	CloudLink Post callin KeepAlive Time
3118	CloudLink Ping Interval
3065	CloudLink Serial Baud rate
3075	CloudLink Serial Port Type

Restart Device Item list:

To restart the Modem the below Item codes have to be considered:

Item Number	Item Name
3186	CloudLink Power-ON Time Sync
3177	CloudLink On Demand Self test
3018	CloudLink Display LED
3021	CloudLink IP Type
3023	CloudLink Access Point Name
3064	CloudLink Manual APN Mode
3074	CloudLink Dynamic APN Startup Delay
3111	CloudLink Server IP Port Number
3142	CloudLink Continuous Server Mode

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