

MCC1 - Multiconverter Communicator

USB – Wireless – Serial data Communication Hub

Product Overview:

The MCC1 is a simple to use, serial data communications hub and interface device providing a high level of integrity in data transfers.

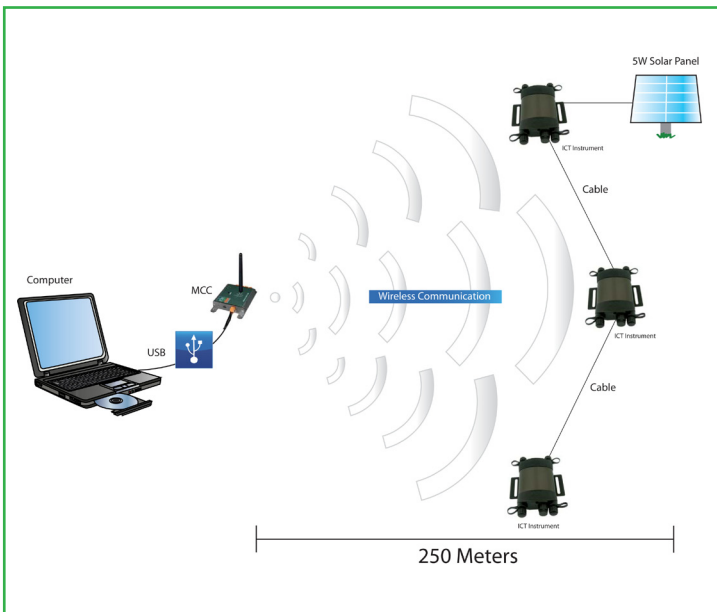
It is designed for remote monitoring and control of industrial communication applications and can be factory customised for specific applications.

Communication:

- Wireless communication with any radio enabled ICT International instrument within 250m.
- Portable, easy to use via ICT International software interface.
- Any radio enabled ICT International Instrument connects directly into any Windows based computer via USB cable.



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Example MCC1 Capabilities

Features:

- Industrial quality product
- Wired interfaces protected against lightning and other transients. Includes separate local earth connection.
- Wired interfaces optically isolated from the USB port and power supply to simplify connections between equipment with different power and ground potentials.
- Data encryption prevents eavesdropping and hacking of transmissions.
- Sophisticated error checking and message resending ensures error free data transfers.



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Communication	
Communication Ports	<ol style="list-style-type: none"> 1. 2.4GHz wireless 2. USB 3. RS-485 4. RS-232 5. TTL-3V 6. TTL-5V 7. SDI-12/S18
Operating	
Operating modes	<ol style="list-style-type: none"> 1. 2.4GHz low power radio to serial data port 2. ICT Compatible USB - 2.4GHz Radio Modem <ol style="list-style-type: none"> a. This mode is used to connect, wirelessly, to any radio enabled ICT instrument using ICT Utility software. 3. ICT RF Logger (USB or serial port – 2.4GHz Radio Logger) <ol style="list-style-type: none"> a. This mode is used when the MCC is used in conjunction with an eState CellVisor or ICT's Soft Logger software to provide PC based logging. 4. USB to Optically Isolated Serial Port Modem. <ol style="list-style-type: none"> a. In this mode the MCC is a USB to serial converter. Serial modes are selectable and can be either RS485, RS232, TTL-3V, TTL-5V or SDI-12/SI8. 5. Multiprotocol Wireless Serial Port to Serial Port Modem <ol style="list-style-type: none"> a. This mode is designed to be used with two paired MCCs. Each MCC can be configured to act as RF-USB or RF-Serial converter. The paired MCCs can then be USB-RF-Serial, USB-RF-USB or Serial-RF-Serial. (The serial ports can be any one of RS232, RS485, 3V TTL, 5V TTL, Monibus or SDI-12). b. In USB-RF-USB mode, two computers can communicate through PC virtual COM ports. c. In Serial-RF-Serial mode, two paired MCCs can provide any combination of RS-485/RS-232/TTL-3V/TTL-5V/SDI-12/SI8 to RS-485/RS-232/TTL-3V/TTL-5V/SDI-12/SI8. 6. Signal Strength Test. <ol style="list-style-type: none"> a. This mode can be used to test the radio link between the MCC and a device compatible with RSSI, (Received Signal Strength Indication), test protocol. ICT Instruments with generic comms board firmware 2-0-4 or above are compatible with the RSSI test protocol.
Power	
Transmitter Power	100dBmW max.
Power Supply	Powered from USB or external 8 - 30V DC supply. (Note: supply current 110mA @ 12V DC.
Operating Conditions	
Radio Range	Up to 1km with whip antennas and up to 5km with high gain antennas, line of sight, depending on conditions.
Data Rate	115kbps maximum depending on mode of operation.
Other Protocols Supported	Supports SDI12 v1.3 Basic Command Set.
Other	
<ul style="list-style-type: none"> • SDHC Memory card slot allows store and forward communication as well as selective logging of communication activity. • Mini USB connector. • Pluggable terminal blocks for serial ports. 	



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