

ECL-DC Ethernet / 3G / RF Data Concentrator

ECL-DC has been developed for machine-to-machine (M2M), Smart Metering and Smart Grid applications supporting data communication and application scenarios making use of Ethernet, 2G/3G, RF networks.

ECL-DC supports following communication scenarios between server systems and 3rd party devices:

- Ethernet - Serial (RS-232, RS-485) Conversion
- Ethernet - 2G/3G Conversion (NAT)
- Ethernet - RF Conversion
- 2G/3G - RF Conversion



Physical Specifications

- Size : 103 x 107 x 56 mm
- Weight : ~330 gram
- DIN Rail and Wall Mountable
- Sealable Terminal Cover

Environmental Specifications

- -20 ... +70°C operating temperature

Power Input

- 100 ... 240 VAC or 9 VDC-48 VDC
- 6 KV Impact Resistance

Wired Interfaces

- 1 x 10/100MBit Ethernet Interface
- 2x USB 2.0 Interface (Host)
- 1 x RS-485 Interface
- 1 x RS-232 Interface (Optional)
- 300bps - 460kbps communication speed
- 7E1, 701, 8N1, 8E1, 8O1 frame
- Rs485 Automatic Data Direction Control (ADDC)

Wireless Features

- Dual Band UMTS (WCDMA/FDD)
900/2100 Mhz (EU) 850/1900 Mhz (US)
- Dual Band GSM
900/1800 Mhz (EU) 850/1900 Mhz (US)
- GPRS/EDGE Class 12HSDPA Cat.6-8
- 7.2 Mbps DL, 5.76 Mbps UL (HSDPA, HSUPA)
237 kbps DL, 237 kbps UL (EDGE Class 12)
85.6 kbps DL, 237 kbps UL (GPRS Class 12)
- CSD 9.6 kbps V.110
- SMA Antenna Connector
- 25mW 169MHz or 433MHz or 868MHz
Embedded RF Module (Optional)
- Wireless Mbus Support (169MHz or 868MHz)
(Optional)

Other Features

- ARM Microprocessor
- 256 MB RAM
- Embedded Linux Platform
- Java SE Support
- Internal GPS Support (Optional)
- Power Line Communication (G3 and Prime)