

# NETCOMM CALLDIRECT SERIES Industrial HSPA Cellular Router

**NetComm**

NetComm Commercial

CDR-790 / CDR-990



## SUPERIOR 3G UMTS PERFORMANCE

The NetComm CallDirect Series allows you to build wide area networks utilizing the superior speeds supported by 3G UMTS networks.

The NetComm CallDirect Series provides the user a point-to-point or point-to-multipoint communications link in a single compact and resilient unit.

The NetComm CallDirect Series are fully featured cellular network routers supporting a large number of communication interfaces and protocols to meet the demands of today's telemetry and WAN applications.

The router's Linux OS and available software development kit (SDK) offers the user the ability to install custom firmware via the application programming interface.

Designed with remote installation in mind, the NetComm CallDirect Series supports multi-level system monitoring, giving the user peace of mind the device will keep communication lines up and open.

| Model Code/ Part Number | Description   | APN Code      |
|-------------------------|---|---------------|
| CDR-790                 | NetComm CallDirect Series Industrial HSPA Cellular Router | 9317773013382 |
| CDR-990                 | NetComm CallDirect Series Industrial HSPA Cellular Router | 9317773013924 |

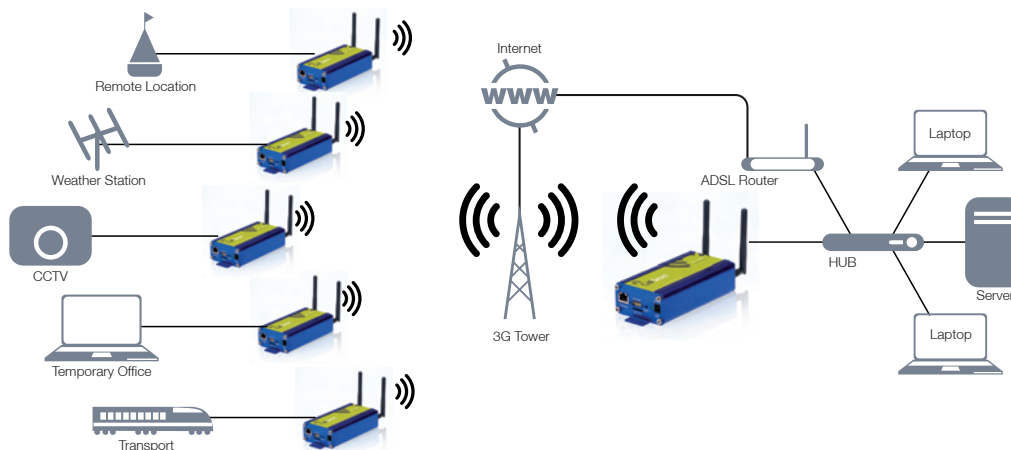
# NETCOMM CALLDIRECT SERIES Industrial HSPA Cellular Router

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## KEY FEATURES

- Powerful and flexible industrial cellular router platform supporting various networks and services UMTS/HSDPA/HSUPA & GSM/ GPRS/EDGE
- Industrial features – rugged enclosure, wide operating temperature range -30 to 70°C, wall mount option and captive DC terminal block
- Wide input voltage range 9-28V DC suitable for diverse environments and applications
- Embedded Linux operating system allowing for the installation of custom applications. SDK is available
- Web interface for easy centralized configuration and management from any PC
- One 10/100 Base-TX port for Ethernet and serial connections
- One RS232 DB9 DCE port for connection to serial devices
- One USB 2.0 host controller for adding on external devices like storage, GPS receiver or USB serial port converter
- VPN support for establishing a secure connection over public cellular network using IPsec or OpenVPN
- Internal PPTP and IPSEC VPN Client (tested on CISCO and Microsoft RAS)
- Supports SNMP with cellular specific MIB, PPPoE, RIP, VRRP, DDNS, MAC /NET address filtering, Open VPN, DHCP/DHCP relay
- Diagnostic log viewer via browser, remote diagnostics and configuration over the air
- PAD mode via the serial port, system monitoring
- Integrated GPS support via SDK (Software Development Kit)



## TECHNICAL SPECIFICATIONS

| MODELS                            | NetComm CDR-790  | NetComm CDR-990                          |
|-----------------------------------|--|--|
| CPU                               | Atmel AT91RM9200 Microcontroller (ARM9 Processor)  |  |
| MEMORY                            | 8MB Flash 16MB DRAM  |  |
| OPERATING SYSTEM                  | Embedded Linux   |  |
| MAXIMUM DATA SPEED                | Downlink 7.2Mbps, Uplink 1.9Mbps (upgradable to 5.76Mbps)  |  |
| 3G DATA MODEM MODULE/CHIPSET      | Sierra Wireless MC8790V/Qualcomm MSM6290   | Sierra Wireless MC8792V/Qualcomm MSM6290 |
| FREQUENCY BANDS UMTS/HSDPA/ HSUPA | Tri-Band 850/2100/1900 MHz   | Tri-Band 900/2100/1900 MHz               |
| FREQUENCY BANDS GSM/ EDGE/ GPRS   | Quad-Band 850/900/1800/1900 MHz  | Quad-Band 850/900/1800/1900 MHz          |
| CONNECTIVITY                      | 1x Serial Port RS232 DB-9 female, 1x RJ-45 Port 10/100Base-TX Ethernet, 1x USB 2.0 Host Controller   |  |
| SIM CARD READER                   | Mini SIM Card plug-in/removal  |  |
| ANTENNA CONNECTORS                | 2x SMA-F (1x Main and 1x Rx Div)   |  |
| LED INDICATORS                    | Power, Network Service Type, Tx/Rx Data Traffic, Data Carrier Connection, Network Signal Strength  |  |
| MANAGEMENT                        | SNMP, MIB, Web-based Management, Diagnostic Log Viewer, Firmware Upgradeable via Browser, System monitoring  |  |
| ROUTING & OTHER FUNCTIONS         | DHCP Server/Client/Relay, Static Route, DynDNS, NET/MAC Address Filtering, NAT, DNS Masquerading, RIP, VRRP, PPPoE, PPP Dial-in and Dial-out Connections with PAP/CHAP Authorization, PAD Mode via Serial Port |  |
| VPN                               | OpenVPN, PPTP, IPsec Client (upon request)   |  |
| OPERATING TEMPERATURE             | -30°C to 70°C  |  |
| INPUT SUPPLY VOLTAGE              | 9 - 28 VDC   |  |
| STANDBY INPUT CURRENT             | 230mA @ 12VDC  |  |
| MAXIMUM INPUT CURRENT             | 550mA @ 12 VDC   |  |
| DIMENSIONS & WEIGHT               | 140mm (L) x 80mm (W) x 44mm (D) (excludes mounting wings) / 280g   |  |
| REGULATORY COMPLIANCY             | A-Tick, RoHS   |  |
| POWER SUPPLY UNIT                 | External Power Adapter with Captive Plug, 100-240V AC to 12V DC/1.5A   |  |