Siretta
Inspired Wireless M2M Technology

routeCONNECT
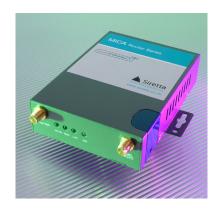
MICA Series
3G & 4G Dual LAN Compact Industrial Router Range

Key Features

- Global 3G / UMTS bands
- European 4G / LTE bands
- High speed data via UMTS & LTE networks
- Strong resistance to electromagnetic interference
- Built-in watch dog, multi-link detection
- Compact industrial design
- Excellent temperature endurance

Additional Features

» Supports DHCP server

» Supports DNS proxy and Dynamic DNS (DNSS)

» Supports timing operation

» Supports LED status indication

» Supports APN and VDPN wireless private network access

» Supports 802.11b/g/n WiFi, 150Mbps data rate

» Local and remote management

» SNMP network management, NTP support

» WAN supports PPOE, Static IP, DHCP Client (with 2 x LAN)

General Description

The Siretta MICA router series is a range of high speed industrial cellular routers in a compact enclosure. The MICA series is offered in 3G / UMTS and 4G / LTE varieties offering reliable, secure and high speed wireless connectivity.

The MICA router series is a quality range designed for use in industrial environments needing high performance and a robust hard enclosure as standard.

The MICA router series has been designed for remote management, telemetry, condition monitoring, CCTV, ATMs, vending machine and other M2M applications.

The MICA router series is an ideal wireless data transfer device for high speed data applications transferring large amounts of data.

The MICA series, using the UMTS / 3G and 4G / LTE networks, gives fast transfer speeds reaching up to 21Mbps download and up to 5.76Mbps upload for 3G and 50M upload and 100M download for 4G. The MICA router series has dual port Ethernet capability and a single SIM as standard, with 150Mbs data rate Wifi and GPS engine as optional versions.

This makes the compact MICA router series ideal for fleet tracking and device access management. In addition, the MICA router series is available with industrial grade VPN as an option, enabling a virtual private network service through the 3G / 4G connection and directly access the industrial server environment.

Rev 1.3

Specifications - Environmental

Operating temperature range:	-30 to 70°C
Storage temperature range:	-40 to 85°C
Relative humidity:	<95% (non-condensing)

Specifications - Mechanical

Dimensions:	103 x 73.5 x 23.5mm (not including antenna)
Weight:	300g

Specifications - Wireless & Electrical

Networks

» UMTS (Global)
  850, 900, 1900, 2100MHz
» LTE (EU)
  800/850, 900, 1800, 1900, 2100, 2600MHz

Interface

» 2 x 10/100Mb LAN (2 x LAN)
» 1 x 3G/4G SMA female antenna interface
» 1 x standard SIM/R-UIM interface
» 1 x standard DC power interface

Optional interfaces

» 1 x 10/100Mb LAN, 1 x WAN
» 1 x GPS OR 1 x WiFi SMA female antenna interface

Route Protocol

» Static route
» RIPv2/OSPF dynamic route

Device Management

» Local or remote web browser (IE v8 or above)
» CLI/Telnet command
» M2M management platform (optional)
» SSH management (optional)

Firewall and Filter

» IP packet/Domain/MAC filter
» NAT
» DMZ

Power and Consumption

» Idle: 80mA @ +12VDC
» Single module comms: 320mA : +12VDC
» Dual module comms: 600mA @ +12VDC
» Power supply: 7.5 - 32VDC

LED Instruction

» WLAN
» WAN
» LAN
» NET

WiFi

» Standard: IEEE 802.11b/g/n
» WEP, WPA and WPA2 encryption
» Standard 150Mbps (300Mbps optional with additional antenna)

VPN

» IPSec
» PPTP/L2TP client
» GRE/IPIP

Approval

» CE
» RoHS
» CCC

Ordering Information

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              MICA    X    X    X    XXXX
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Range Identifier

MICA = Industrial Router Range

Optional Antenna Interfaces*

G = GPS
W = WiFi

Number of Ethernet Ports

1 = 1 x Ethernet LAN Port, 1 x Ethernet WAN Port
2 = 2 x Ethernet LAN Ports

Number of SIM Ports

1 = 1 x SIM Port

Technology

UMTS = Global 3G
LTE = European 4G

Part Numbering Examples

»   MICA-11-UMTS = Global UMTS Industrial Router with 1 x Ethernet LAN, 1 x Ethernet WAN and 1 x SIM
    Port Interfaces

»   MICA-W21-LTE = European LTE Industrial Router with 2 x Ethernet LAN and 1 x SIM Port Interfaces, with
    WiFi

*WiFi and GPS are not available on a MICA simultaneously. If you do not require an
additional antenna interface, leave this blank.

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