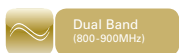




iO270 iDEN Wireless Module

Delivering seamless mobility to the M2M world



Dual Band
(800-900MHz)



GPS



Ext. RF



Compact Size



Robust
Environmental
Design



WiDEN Enabled

Only Motorola delivers you seamless mobility in all technologies.

Motorola makes the only iDEN module in the world, complete with all the functionality that you need to create powerful wireless iDEN devices for every industry use.

The iO270, is an easily integrated, fast and cost-effective wireless module, which enables machines to transmit data and voice in real-time, allowing communication with central computers and with multiple devices from everywhere.

Wireless features you need.

Motorola's iO270 iDEN wireless module comprises all the wireless features that allow you to integrate an excellent end product. Digital cellular voice, packet data, push to talk digital dispatch, and offline GPS capabilities, are all part of the package. Our GPS functionality is network independent so you can capture coordinates even when there is no cellular coverage available.

Motorola - The wireless pioneers.

Motorola has been in the telecommunication industry for over 80 years and has pioneered wireless technology. We are the standard that others strive to achieve. We are committed to the wireless industry and to continually develop new solutions for your benefit. Motorola introduced the iDEN module allowing you to provide unique products to your customers.

Uncompromising Quality.

Our iDEN module is made with the Motorola dedication to quality which is the hallmark of all our



products. In addition to holding our products and manufacturing processes up to industry standards, we developed a proprietary Accelerated Life Test which introduces prototypes into real-world scenarios, to test their mettle before they hit the streets.

We are here to support you.

Motorola is dedicated to providing excellent customer service and support. We not only provide you with a solution, but also assist you with your needs from the design phase through accreditation.

Wireless for every need.

Every industry can gain advantage from integrating our iDEN wireless module, including telematics & fleet management, remote metering, automation & control, security, and electronic points of sale.

iO270 iDEN Product Specifications

Product Features

- Digital Cellular Voice
- Push-To-Talk Digital Dispatch
- Packet Data Transfer
- Network Independent A-GPS
- Fax Capabilities
- WiDEN Enabled
- On-board GPS
- Active GPS Antenna Support
- Hayes Compatibility
- Port Forwarding

Physical

- Size: 47mm x 47mm
- Weight: 16.6 gram

Environmental

- Operating temperature: -20°C to +60°C
- Storage temperature: -40°C to +85°C
- Shock: MIL-STD-810E Method 516.4 Proc.
- Vibration: 2X-EIA

Physical Interfaces

Electrical Frequency

- TX 806-825 MHz
- RX 851-870 MHz
- TX 896-902 MHz
- RX 935-941 MHz
- 900 MHz Control Channel + Dispatch Support (Special Request)

Interfaces

Connectors

- 70 Pins MOLEX Connector
- Mini UFL iDEN/GPS Connector
- Mini UFL GPS Connector

Connectivity

- Direct Access (RS232):
 - UART1 Primary
 - UART2 Secondary

USB 1.1

SIM Card

- 128K SIM
- 3.0V

Performance

Operating Voltage

- Voltage: 3.2V - 4.2V

Current Consumption

- 3A Tx max Peak,
- 1A average TX Slot
- 300mA Average at TX 1:6
- 12mA standby (sleep mode)

TX Power

- 0.6W 800 MHz
- 0.6W 900 MHz

Data Features

iDEN

- SLIP (via Direct Access)
 - PPP (via Direct Access)
 - AT over UDP
 - Dispatch 1:6
 - Interconnect 1:3
 - Packet Data
 - Circuit Data
- ### SMS
- MO / MT PDU modes

Led Status Indications

- Registration
- In Service
- In Use
- No Service

At Command Set

- GSM 07.07 (pass-through)
- GSM 07.05 (pass-through)
- Motorola proprietary commands

Regulatory and Approvals

- FCC
- Industrial Canada
- QS 9000 Manufacturing

Accessories

- Developer's Kit

For more information contact us at: M2M.Sales@motorola.com



www.motorola.com/m2m



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