HUSKY™ RTR 6049

WIRELESS MODEM

Application Areas

32 Bit Fan-less Microprocessor
Up to 4 nos. Switched 10/100 Ethernet Ports
Up to 2 nos. RS232 / RS485 Serial Ports
Built-in 4G / 5G Modem
Dual SIM option
Status Indications
Optional Hardwired I/O (4DI, 4DO)

HUSKY RTR6049 wireless modem is a device that can enable any Ethernet device to communicate with a central location over 4G/5G networks. The device offers a customized and cost-efficient solution for remote data collection applications. The device features an embedded 32-bit microprocessor and an embedded operating system that provide the computing power to effectively meet the requirements of establishing an IPSec or TLS VPN with the control center. The VPN is a transparent channel which can be used to exchange any kind of TCP/UDP traffic on both the directions. The end devices and the control center communicate using private, static IP addresses, over a public, dynamic IP network.

The device offers up to 4-port switched Ethernet 10/100Mbps interfaces. In addition, the device supports establishment of two independent VPNs with two different control centers. This allows the end devices, typically RTUs, to communicate with more than one control center. Optional RS232 / RS485 serial ports allows connectivity of serial devices also. The serial protocol is transparent to the device. The VPNs can be optionally encrypted using SSL/TLS protocol. The Ethernet ports can be configured for WAN purpose also.
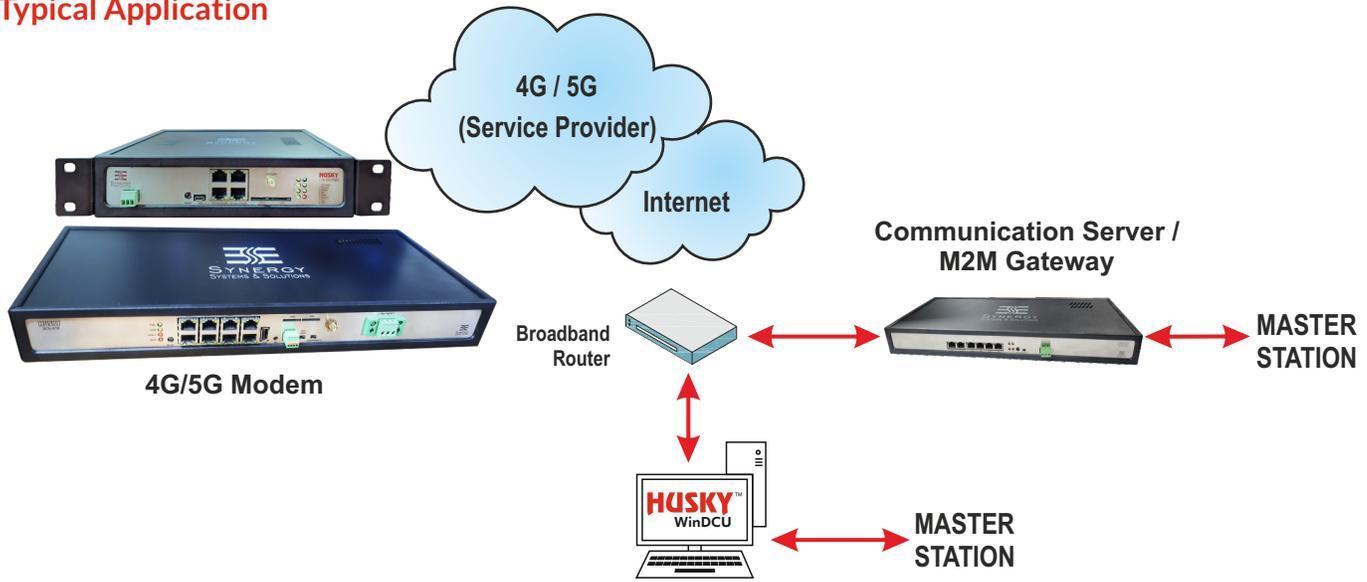
The device supports dual SIM operation, offering cold switch-over of wireless networks. This allows use of different service providers to achieve better link availability.

Optional in-built I/O and in-built support for Modbus / TCP slave or IEC 60870-5-104 slave protocols eliminates the need for a dedicated RTU for very low I/O applications.

SYNERGY
SYSTEMS & SOLUTIONS

WIRELESS MODEM

Typical Application

4G / 5G (Service Provider)

Internet

Communication Server / M2M Gateway

4G/5G Modem

Broadband Router

MASTER STATION

HUSKY™ WinDCU

MASTER STATION

Technical Specifications

Ethernet	1x/2x/4x 10/100 Switched Ethernet
Ethernet Interface	RJ 45
Serial Interface	RS232 / RS485 (2 wire / 4 wire)
VPN Support	IPSec / TLS VPNs (up to 2 VPNs)
RF Modem	4G / 5G Radio Modem with 2G fallback
Power Consumption	25W Max. (@24VDC)
Operating Cond.	-10 to 70°C; 95% RH
Dimensions (19" rack)	(W)425mm x (H)50mm x (D)205mm
Dimensions (DIN-rail)	(W)65mm x (H)115mm x (D)115mm
RTC	100ppm with super-cap (10 year life)
Watchdog	In-built hardware watchdog
Sealing Arrangement	SIM and body can be sealed (option)

Operating Bands	
LTE FDD	B1/B3/B5/B7/B8/B20
WCDMA	B1/B5/B8
GSM	B3/B8
SMS	Point to point MO and MT
Antenna	SMA Female Connector
	8dBi Antenna with 3m cable
SIM	Dual Micro- SIM slot (push-push type)
Hardwired I/O Options*	24/48VDC Pos Logic DI
	1 No. Relay Outputs for DO

* All I/Os are isolated from field.

Ordering Code

RTR6049 – ☐ - ☐ - ☐ - ☐ - ☐ - ☐

4G/5G

Ethernet Ports - (1-4)

Serial Ports - (0-2)

No I/O - X
4DI/4DO - 4

90~270VAC/DC - U
20~60VDC - D

DIN-Rail - D
Rack-mount - R