

GENESYS



NETWORK PROCESSOR PRO SERIES

M2M IoT NETWORK PROCESSORS
with 3G, ETHERNET and Wi-Fi, GPS &
ZIGBEE™ OPTIONS

Pro: GEP-PM-200P

Pro+: GEP-PM-201P

Pro++: GEP-PM-202P

GENESYS
ELECTRONICS DESIGN

CALL US ON +61 2 9496 8900

Unit 5, 33 Ryde Road
Pymble NSW 2073 Australia
enquiries@genesysdesign.com.au

M2M IoT NETWORK PROCESSOR PRO SERIES

The Genesys M2M IoT Network Processor Pro series are industrial-grade NetComm Wireless* NTC-6908, NTC-6200 or NTC-40WV modems fitted with custom software developed by Genesys to implement a configurable common data abstraction model that allows any type of IO device with any physical interface or communications channel to be made interoperable with any other device. This allows M2M functions such as logical grouping, bridging, tunnelling and scripting to be implemented seamlessly across an entire M2M system.

MACHINE LOGIC & SERVICE ENGINE

Functionality such as central integration, interoperability, configuration and management of disparate machines and machine interfaces is included in the Network Processor Series. This functionality could be used to avoid the need to deploy an on-site computer.

WEB SERVING

The Network Processor Series includes built web server capabilities for user interface presentation to mobile devices and PCs.



**PRO MODEL:
NETCOMM WIRELESS
NTC-6908 (200P)**



**PRO+ MODEL:
NETCOMM WIRELESS
NTC-6200 (201P)**



**PRO++ MODEL:
NETCOMM WIRELESS
NTC-40WV (202P)**

6LoWPAN EDGE ROUTER

The 6LoWPAN router will manage local Genesys M2M meshed network which provides 6LoWPAN connectivity between devices. Supported functionality includes gateway to Internet, IPv4, IPv6 and support for all standard Internet protocols.

CLOUD COMMUNICATIONS

The Network Processor enables communications with Cloud based and other servers for data gathering, monitoring and control.

CUSTOM APPLICATIONS

Save time and money by avoiding the need to build customised application software, the Network Processor includes capabilities for custom configuration of the very flexible common data abstraction model. However, customised software applications can be developed to run on the NetComm Wireless platform.



*Genesys is an accredited NetComm Wireless developer, using NetComm Wireless' SDK. Please refer to the following pages for more information:

- <http://support.netcommwireless.com/product/m2m-wireless-series/ntc-6908>
- <http://www.netcommwireless.com/product/m2m/ntc-6200>
- <http://www.netcommwireless.com/product/m2m/ntc-40w>

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M2M IoT NETWORK PROCESSOR PRO (NETCOMM NTC-6908) SPECIFICATIONS

CPU & MEMORY

400Mhz ARM9 CPU with 64MB DRAM
256MB NAND Flash Storage

PEAK DATA SPEED

3G HSDPA/HSUPA: 7.2 Mbps/5.76Mbps
3G HSPA/UMTS and 2G GSM/EDGE bands
supported

CONNECTIVITY

1 RJ-45 10/100Base-TX Port, supporting LAN/
WAN
1 DB9 Serial Port supporting RS-232/485/422

ADMINISTRATION & CONFIGURATION

Web-based user interface with backup and
restore
Telnet/SSH command line interface
SNMP v1 and v2 including cellular specific MIB
TR-069 client for remote device configuration
Advanced diagnostics & control via SMS

ENVIRONMENT

Operating Temperature Range: -30°C ~ +70°C

POWER SUPPLY

DC power (8-28V) via DC-in port

DIMENSIONS

127mm (L) x 103mm (W) x 29mm (D), 240g

Sampled with permission from NetComm
Wireless. For full specifications please visit
the NTC-6908, NTC-6200 and NTC-40WV
pages on www.netcommwireless.com

M2M IoT NETWORK PROCESSOR PRO+ (NETCOMM NTC-6200) SPECIFICATIONS

CPU & MEMORY

450Mhz ARM9 CPU with 64MB DDR2 RAM
256MB NAND Flash Storage

PEAK DATA SPEED

3G HSDPA/HSUPA: 14.4 Mbps/5.76Mbps
3G HSPA/UMTS and 2G GSM/EDGE bands
supported

CONNECTIVITY

1 RJ-45 PoE 10/100Base-TX Port
1 DB9 Serial Port supporting RS-232/485/422
1 Mini USB 2.0 OTG interface (0.5A)

CONNECTIVITY

Embedded GPS Receiver (1575.42Mhz)
ZigBee Wireless EM357 Module (2.4Ghz)
Modbus TCP/IP Server & Client with up to 247
slaves, Modbus RTU/ASCII frames support

ADMINISTRATION & CONFIGURATION

Web user interface with backup and restore
Telnet/SSH command line interface
SNMP v1 and v2 including cellular specific MIB
TR-069 client for remote device configuration
Advanced diagnostics & control via SMS

ENVIRONMENT

Operating Temperature Range: -20°C ~ +70°C
Storage Temperature Range: -20°C ~ +70°C

POWER SUPPLY

DC power (8-40V) via termination block or PoE
Power consumption: 6W

DIMENSIONS

143mm (L) x 107mm (W) x 34mm (D), 221g

M2M IoT NETWORK PROCESSOR PRO++ (NETCOMM NTC-40WV) SPECIFICATIONS

CPU & MEMORY

400Mhz ARM9 CPU with 128MB DDR2 RAM
256MB NAND Flash Storage

PEAK DATA SPEED

3G HSDPA/HSUPA: 21 Mbps/5.76Mbps
3G HSPA/UMTS and 2G GSM/EDGE bands
supported

CONNECTIVITY

1 RJ-45 10/100Base-TX Port, supporting LAN/
WAN
1 Mini USB 2.0 console port

WIRELESS CONNECTIVITY

IEEE 802.11b/g/n Wi-Fi (2.4Ghz)
WEP 64- and 128-bit, WPA, WPA2, TKIP, AES,
Multiple SSID security features
Lockable SIM card reader

ADMINISTRATION & CONFIGURATION

Web-based user interface with backup and
restore
Telnet/SSH command line interface
SNMP v1 and v2 including cellular specific MIB
TR-069 client for remote device configuration
Advanced diagnostics & control via SMS

ENVIRONMENT

Max Operating Temperature Range: -25°C ~
+75°C

POWER SUPPLY

DC power (8-28V) via DC-in port

DIMENSIONS

155mm (L) x 104mm (W) x 30mm (D), 300g