The Genesys M2M IoT Network Server provides a single-device solution for Internet-enabling a wired or wireless network of devices, allowing those devices to interoperate with themselves or other locally or remotely located devices.

The M2M IoT Network Server makes connecting your devices to the Internet of Things fast, efficient and low-risk.

REMOTE ACCESS, CONTROL & MONITORING
Remotely configure, control, monitor and log your M2M/IoT network via the Internet. Optimise time on site by receiving email & SMS alerts & reports.

M2M SUB-NETWORK INTEGRATION
A wide variety of customisable machine sub-network media and device protocols are supported, including Ethernet, PoE, Wi-Fi, 6LoWPAN, IEEE 802.15.4, RS-485/422 etc.

FLEXIBLE M2M FUNCTIONS
The M2M IoT Network Server implements 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.

RUGGED AND ROBUST
The M2M IoT Network Server is also suited to installation in locations with unreliable utilities. With wireless Internet access, built in uninterruptible power supply (UPS), solar powering, and a ruggedised IP65-rated design, it is largely self-sufficient.
### CHARACTERISTICS

#### INTERNET CONNECTIVITY
- 3G/4G connection with onboard SIM card from ISP
- Ethernet connection onto local LAN and Internet connection
- Circuit-Switched Voice enabled

#### LOCAL WIRELESS NETWORK
- IEEE 802.11n WiFi hotspot
- IEEE 802.15.4 full mesh network
- 6LoWPAN IPv6 enabled stack
- Supports drop-in, drop-out PnP

#### LOCAL WIRED NETWORK
- Ethernet [10/100BASE-TX]
- PoE source IEEE 802.3at-2009
- RS-485/422
- USB 2.0

#### USER INTERFACE
- Locally served webpage with generic level control and monitoring capability
- WiFi or otherwise websocket connected mobile device application with full control and monitoring capability including geographical visualisation.

#### INPUTS/OUTPUTS
- 16 relay output channels
- 16 optically isolated input channels
- Optional extra digital and analogue channels are available on request

#### PHYSICAL
- Dimensions - 300 (W) by 400 (H) by 200 (D) mm
- Weight - 9000g
- IP65 rated design

#### ENVIRONMENTAL
- Temperature (operating): -15°C to +55°C
- Temperature (survival): -55°C to +85°C
- Humidity (operating): 95% RH at 50°C

#### POWER SOURCES
- Integrated UPS 7.2Ah battery backup
- 240V 50Hz mains power
- Vehicle cigarette lighter socket
- Photovoltaic (PV) panel (optional)
- Power Consumption (operating): 12W
- Power Consumption (standby): ~0W

#### OTHER INTERFACES
- Webcam via PoE
- Optional extra interfaces and connectivity are available on request