

## ip.buffer



Standard Enclosure



NEMA-4X/IP67 Enclosure

The Scannex ip.buffer range provides a powerful and cost effective solution for the collection of any ASCII or binary data from serial and IP sources. Available in standard commercial packaging for industrial use or NEMA-4X/IP67 enclosure for scientific and marine applications.

The ip.buffer has an extensive range of data delivery options using industry standard Internet TCP/IP protocols. A large non-volatile flash memory enables the ip.buffer to reliably store, monitor and manage a wide range of oceanographic and other sensors.

Bidirectional communication, encryption, and user authentication provide a safe method for remote device administration.

### Key Benefits

#### Flexible scripting.

Powerful Lua scripting for complex string detection, modification, and filtering of incoming data. Allows complex power management.

#### Packaging options.

Available in commercial and rugged NEMA-4X/IP66 packaging.

#### Collect from Serial + IP sources.

Collect from TCP/IP enabled devices (including raw, Telnet, FTP, UDP, Syslog, SNMP trap, RADIUS Accounting), or collect from standard RS232/V24 sources.

#### Multi-port data collection.

Each channel can be configured individually allowing any mix of data collection, alarm detection and management over network or modem.

#### GPRS cellular modem option.

Optional GPRS modem provides fall-back data delivery if the main network fails, and also allows administration of the ip.buffer over the cellular network.

#### Flexible delivery.

Deliver data by raw TCP/IP push or pull, Email, HTTP post, FTP/SFTP push or FTP pull.

#### Secure transfers.

Industry standard TLS/SSL with AES-256 encryption for 'banking-grade' security on all delivery options, or SFTP/SSH secure push.

#### Pro-active.

Email, HTTP, and SNMP trap notifications on important events.

#### Reliable.

Uses the high assurance INTEGRITY Operating System from Green Hills Software.

	ip.1-32	ip.4-256	ip.4-256.4g.p.N4X
<b>Data Collection &amp; Storage</b>			
Serial Data Collection Ports	1	4	4
TCP/IP, Telnet, FTP, UDP, SNMP Traps, Syslog, RADIUS	√	√	√
Multi-homing	√	√	√
Record Time-Stamping	√	√	√
Flash Memory Size (10 year retention)	32MByte	256MByte	256MByte
Memory Storage Channels	1	4	4
Dynamic Memory Allocation Between Channels	-	√	√
<b>Data Delivery Options</b>			
Real-Time TCP/IP (Client & Server)	√	√	√
FTP Server, FTP Push, SFTP/SSH Push	√	√	√
Email (Triggered)	√	√	√
HTTP post to standard web server	√	√	√
Internal scheduler for FTP/HTTP/Email (per channel)	√	√	√
SSL Encrypted Connections for all delivery methods	√	√	√
z-lib Data Compression on Delivery (FTP, HTTP, Email)	√	√	√
Modem Delivery across Internet (all delivery methods)	modem optional	modem optional	√
<b>Scripting Engine</b>			
Scripted Alarm and Fault Detection	√	√	√
Filtering & Modification of Data	√	√	√
Scripted Device Protocols	√	√	√
<b>Management &amp; Security</b>			
Web Server (http:// & https://) for Configuration	√	√	√
RADIUS authentication	√	√	√
Pass-Through for administration of devices	√	√	√
SNMP Agent	√	√	√
Syslog output and Audit Log	√	√	√
Remote Fail-Safe Firmware Upgrades	√	√	√
CHAP/PPP Modem Dial-In	modem optional	modem optional	n/a
Real-Time-Clock (battery backed) with SNTP & DST	√	√	√
Centrally managed using HTTP web server	√	√	√
<b>Alerts</b>			
Source Connect/Disconnect (COM & TCP) & Data Quiet	√	√	√
Percentage Full alarms	√	√	√
Comfort, Reboot, Config & Authentication	√	√	√
Temperature (upper & lower limits)	-	√	√
SNMP Traps (compatible with HP OpenView)	√	√	√
<b>Installation Features</b>			
Auto Pin, Baud, and Protocol Setup on Serial Ports	√	√	Baud & Protocol
Auto cross-over, Full/Half Duplex on 10/100 Ethernet	√	√	√
Network Configuration Tool	√	√	√
<b>Options</b>			
Internal 33.6k Global Modem	ip.1-32.m	ip.4-256.m	n/a
4G/3G/2G Cellular Modem	ip.1-32.4g	ip.4-256.4g	ip.4-256.4g.p.N4X
Isolated -48 VDC Supply	n/a	ip.4-256-48	n/a
<b>General</b>			
2 Hour Battery Back-Up (Batteries not supplied)	√	√	n/a
Casing	Plastic	Metal	Metal N4X/IP67
Mounting Options	DIN-Rail & Tie-Wrap	Rack-Mount	Wall Mount
Kit Includes All Cables, Adaptors & PSU	√	√	√