≡scannexⅢ

ip.buffer

Standard Enclosure

NEMA-4X/IP66 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/IP66 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.

Powerful Data Collection & Telemetry for Industrial & Marine Applications

feature matrix

	ip.1-32	ip.4-128	ip.4-128.g.N4X
Data Collection & Storage			
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)	32Mb	128Mb	128Mb
Memory Storage Channels	1	4	4
Dynamic Memory Allocation Between Channels	-	√	√
Data Delivery Options			
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	√
Scripting Engine			
Scripted Alarm and Fault Detection	√	√	√
Filtering & Modification of Data	√	√	√
Scripted Device Protocols	√	√	√
Management & Security			
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	CSD (if available)
Real-Time-Clock (battery backed) with SNTP & DST	√	√	√
Centrally managed using HTTP web server	√	√	√
Alerts			
Source Connect/Disconnect (COM & TCP) & Data Quiet	√	√	√
Percentage Full alarms	√	√	√
Comfort, Reboot, Config & Authentication	√	√	√
Temperature (upper & lower limits)	-	√	√
SNMP Traps (compatible with HP OpenView)	√	√	√
Installation Features			
Auto Pin, Baud, and Protocol Setup on Serial Ports	√	√	Baud & Protocol
Auto cross-over, Full/Half Duplex on 10/100 Ethernet	√	√	√
Network Configuration Tool	√	√	√
Options			
Internal 33.6k Global Modem	ip.1-32.m	ip.4-128.m	n/a
GPRS Quad-Band Modem	ip.1-32.g	ip.4-128.g	ip.4-128.g.N4X
Isolated -48 VDC Supply	n/a	ip.4-128-48	n/a
General			
2 Hour Battery Back-Up (Batteries not supplied)	√	√	n/a
Casing	Plastic	Metal	Metal N4X
Mounting Options	DIN-Rail & Tie-Wrap	Rack-Mount	Wall Mount
Kit Includes All Cables, Adaptors & PSU	√	√	√