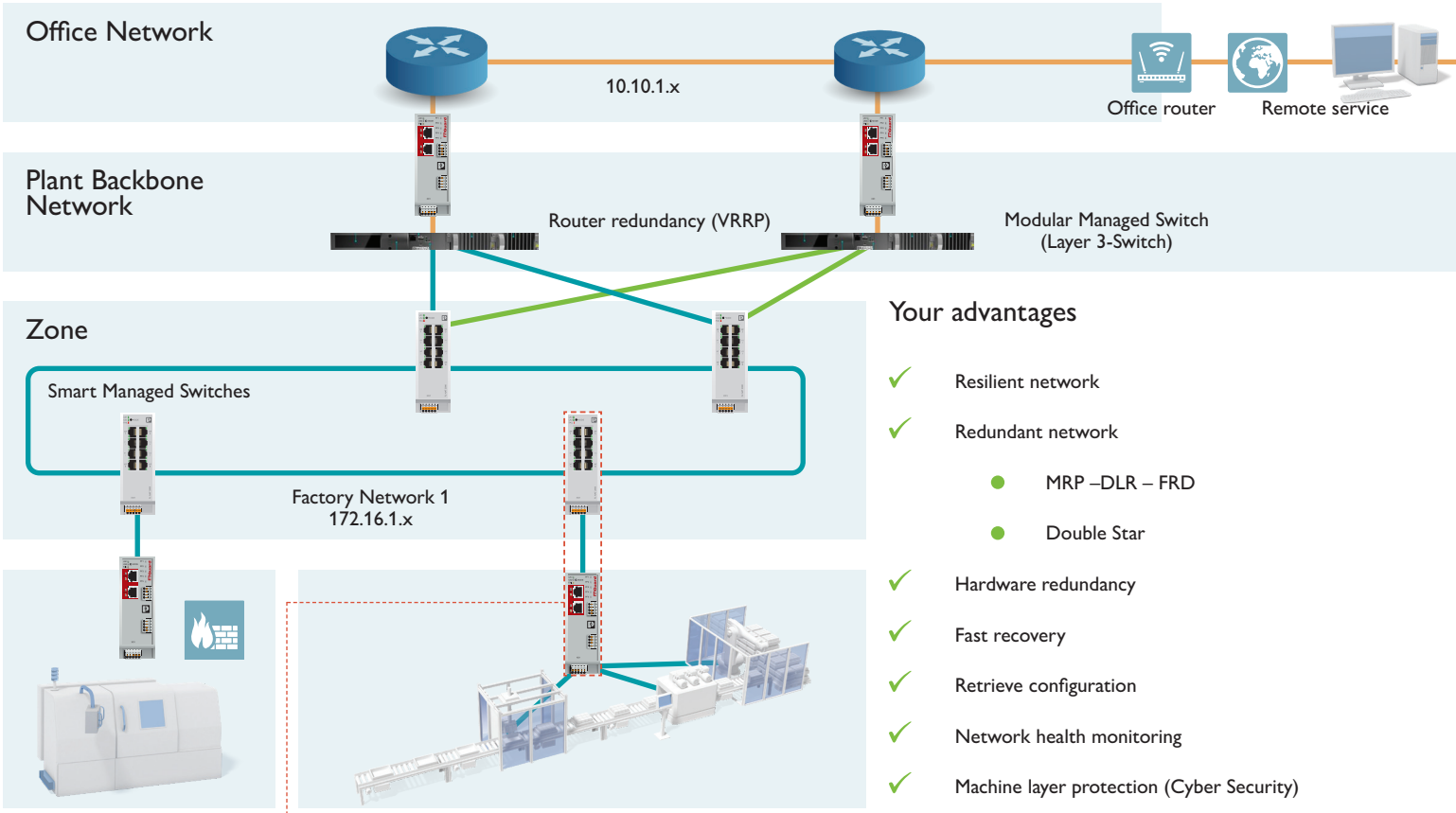
Concentrator Panel Solutions

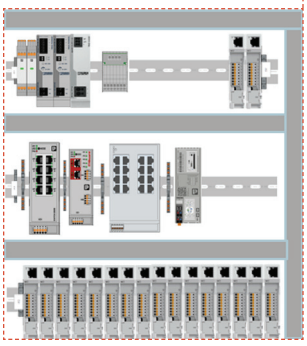


Industrial Distribution Switch (IDS) solution



Your advantages

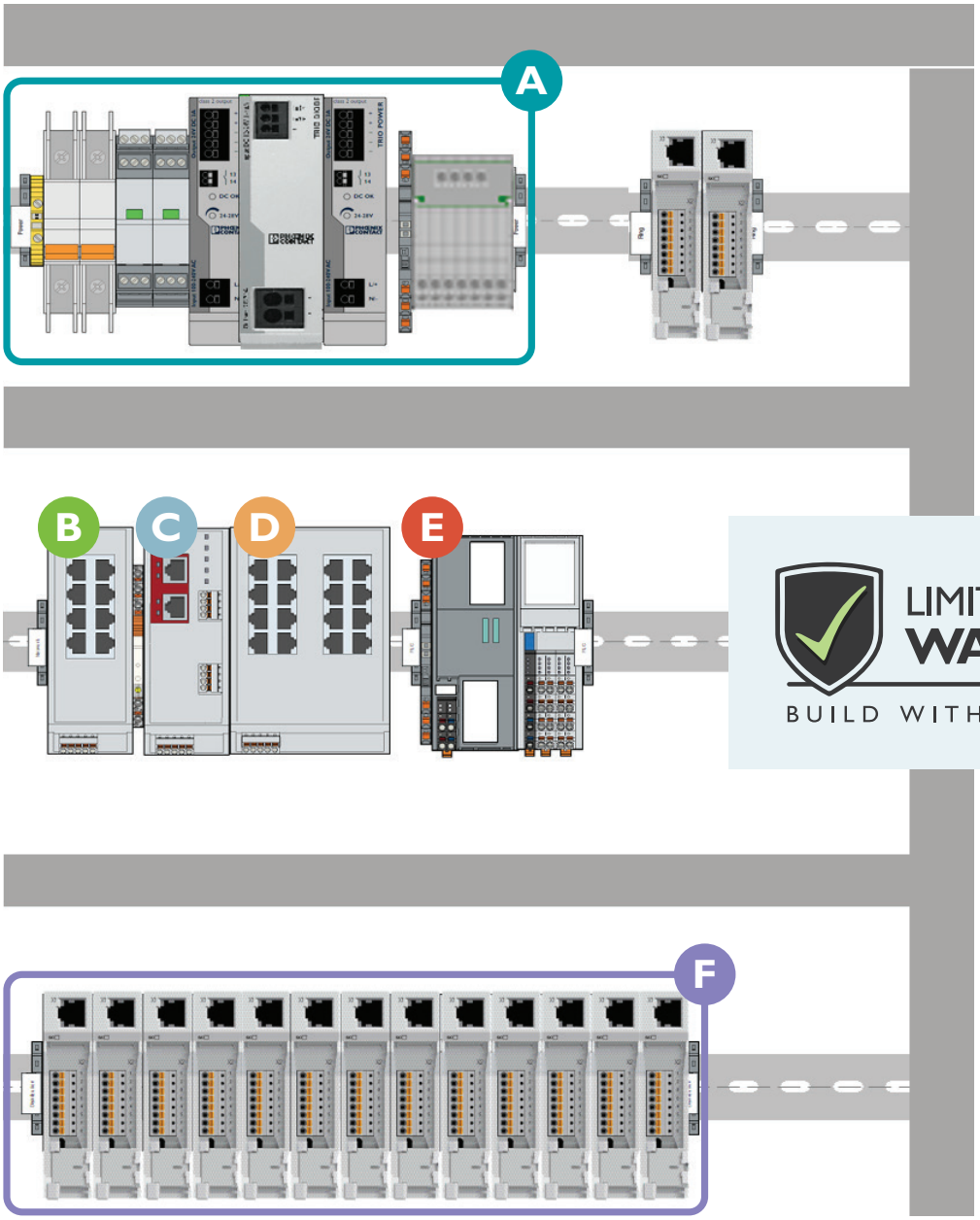
- ✓ Resilient network
- ✓ Redundant network
  - MRP –DLR – FRD
  - Double Star
- ✓ Hardware redundancy
- ✓ Fast recovery
- ✓ Retrieve configuration
- ✓ Network health monitoring
- ✓ Machine layer protection (Cyber Security)



Concentrator Panel

Solutions for physically gathering signals while virtually separating them. Not only an ethernet switch but a complete solution.

- ✓ Keep the group traffic on a group level
- ✓ Install Machine Level Protection to be cyber safe Ring in redundant, load sharing, Gbps.
- ✓ IIoT:
  - Cloud connection
  - Internal DB
  - Gathering the data
  - Close the gap of technology



LIMITED LIFETIME
WARRANTY
BUILD WITH CONFIDENCE

A

- Redundant power supply **MTTF (385 Y)**
- Surge protection
- Limited lifetime warranty
- DC distribution with electronic breaker

B

- Ring switch, Gbps redundant power, **MTTF (507 Y)**

C

- Autotune Firewall, advance function, 1Gbps capable **MTTF (362 Y)**

D

- Group switch level, diagnostic function, IGMP snooping, multicast filtering **MTTF (507 Y)**

E

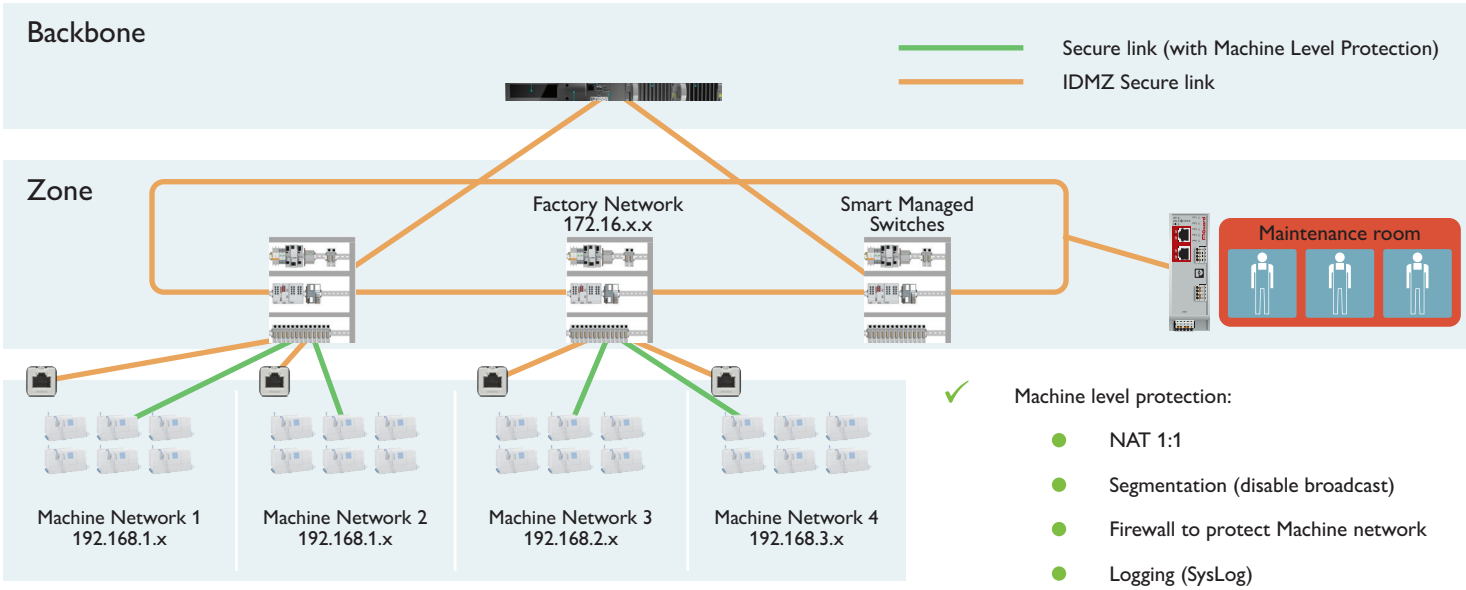
- IIoT function:
  - Cloud connection (OPU UA, MQTT, etc.)
  - Open platform
  - PLC function to work data
    - IEC-61131
  - Integrated DB (SQlite or NoSQL)
  - Connection to PLC in place
    - Ethernet-IP, OPC UA, Modbus, IO-Link
  - Web page, connection to TV
  - SNMP Gateway

F

- Patch panel, easy wire connection



Concentrator Panel — Cyber security solution (Zone 0-1)

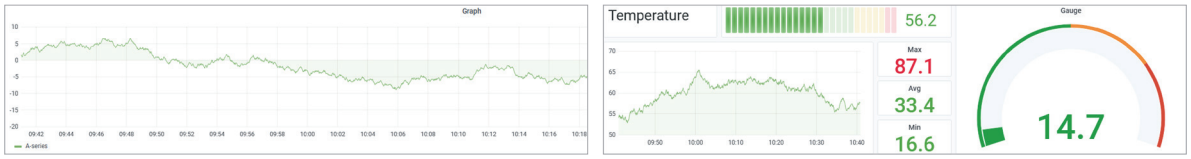


✓ Machine level protection:

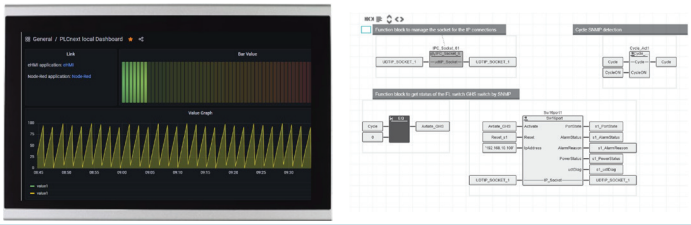
- NAT 1:1
- Segmentation (disable broadcast)
- Firewall to protect Machine network
- Logging (SysLog)

Monitoring the network / Managing the Data (IIoT)

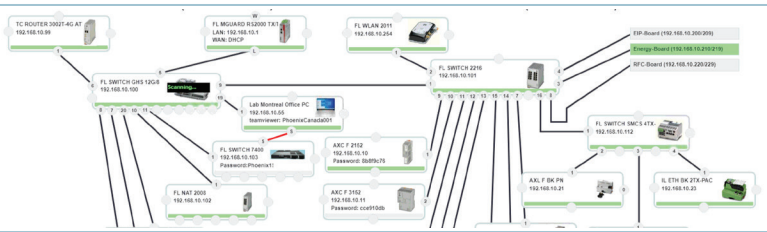
PROFICLOUD or other cloud service



HMI, web scada, PLC programming

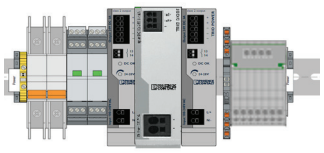


Managing the network, alarm, and monitoring



Concentrator Panel — Part List

Redundant Power Supply (Lifetime Warranty)



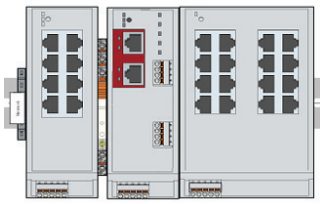
Item type	Description	Order no.
GND terminal block	UT 4-PE	3044128
Breaker 3A	TMC 81C 03A	2907560
Surge protection type 3	SEC-T3-120-FM-UT	2907918
Power supply 3A	TRIO-PS-2G/1AC/24DC/3/C2LPS	2903147
Diode module	TRIO2-DIODE/12-24DC/2X10/1X20	2907380
Electronic circuit breaker 3A	PTCB E1 24DC/1-3A NO	2909909
Potential distributors	VIP-3/PT/PDM-2/16	2903797
Buffer 3.8A*	QUINT4-CAP/24DC/3.8/1KJ/PT	2320526

Patch Panel and Ethernet Cable



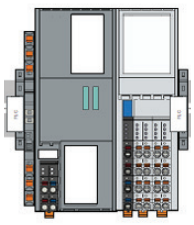
Patch Cable	PP-RJ-IDC	2703019
Ethernet cable 0.3M	NBC-R4OC/0,3-BC6A/R4OC	1227572
Service port 120Vac + RJ-45	CDHCPP-RJ45,120AC	1186172
Ethernet cable for service port 1.0M	NBC-R4OC/1,0-BC6A/R4OC	1227575
M12 to RJ-45 (replacing the Patch Panel)*	CUC-BH-M12D1PBK-S/R4BE	1414398
CES cable entry*	CES-B24-10XSRC-BK	1411074

Network



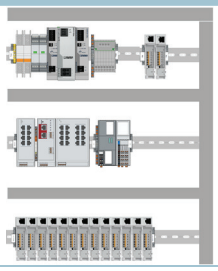
Ring Switch, Gbps, 8 TX ports	FL SWITCH 2308	2702652
Relay (For Alarm Managing)	RIF-0-RPT-24DC/21	2903370
Cyber security device	FL MGUARD 1102	1153079
Machine level switch 16 TX ports	FL SWITCH 2016	2702903
Ring Switch, Gbps, 6 TX ports, 2 SFP port (fiber)*	FL SWITCH 2306-2SFP	2702970
MGuard secure cloud additional feature*	FL MGUARD 4305	1357840
Machine level switch 16 TX ports, Gbps*	FL SWITCH 2116	2702908
Ring Switch, Gbps, 6 TX ports*	FL SWITCH 2316	2702909
Ring Switch, Gbps, 14 TX ports, 2 SFP port (fiber)*	FL SWITCH 2314-2SFP	1006191

IIoT



PLCnext ARM	AXC F 2152	2404267
SD memory card	SD FLASH 8GB PLCNEXT MEMORY	1061701
16 inputs DC card	AXL F DI16/1 1H	2688310
PLCnext x86*	AXC F 3152	1069208
PLCnext Edge device*	EPC 1502	1185416
PLCnext Edge with Wi-Fi*	EPC 1522	1185423

Complete Panel



Description	Price	Order no.
JB SH A-CONCENTRATOR PANEL	Starting at $16000	1587123

*Optional

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