

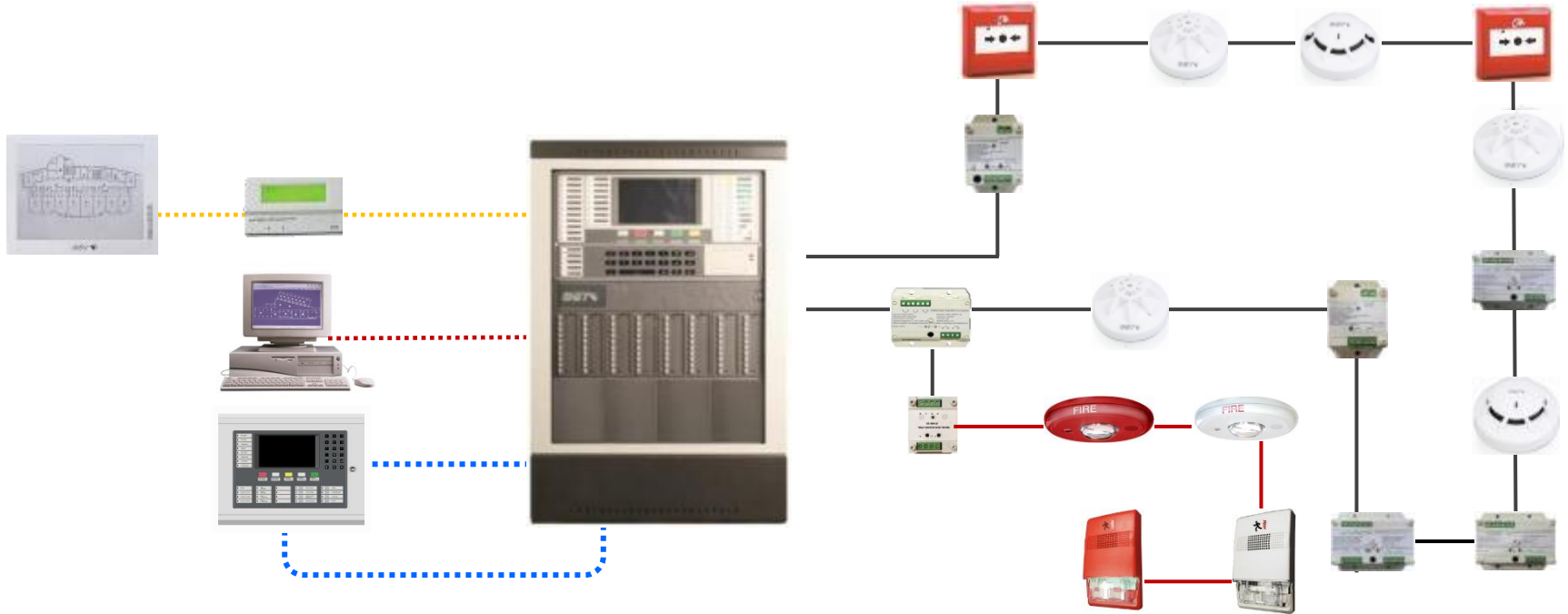
GST-IFP4M Fire Alarm Control Panel

Solution for Market Segments



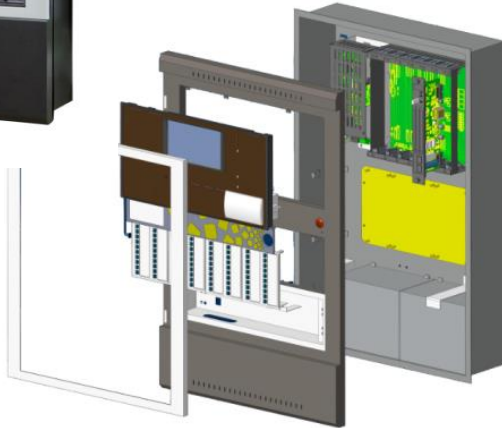
Market	Addressable	Addressable	Addressable
Devices per system	363,000	121,000	605,000
Devices per panel	1452	484	2420
Detectors per panel	1452	484	2420
Zones per panel	1000	1000	2000
Loops per panel	6	2	10
Network nodes per system	250	250	250
Zones per network	1000	1000	2000
Loops per network	1500	500	2500

GST-IFP4M System Overview



Max # of expansion slots / panel	Max # of loops / cabinet	Max # of network node / system	Max # detectors / system
5	6	250	363,000

GST-IFP4M Panel



Key Features

- English & configurable language (optional Arabic)
- 7.0" 800x480 color capacitive touch screen
- Redundant CPU*
- CAN, TCP/IP*, Fiber networking
- USB port for F/W upgrade
- Built-in printer, optional external USB printer
- Remote diagnosis via Ethernet*
- Support USB dongle for securing project database
- Up to 250 panels network
- 100,000 event log
- PAS per point (NFPA 72 compliant)
- 1 NAC output & 1 AUX output
- AUX output can be used as NAC output
- 2 programmable outputs
- Built-in BACnet support, optional Modbus
- Email notification

* Available for next release

GST-IFP4M Main Components

Main Components



Reference	Default	Description
MP-400	1	CPU Mounting Board
MP-401	1 (up to 2)	CPU Card / optional Redundant CPU Card
NC-400	1	NAC Card
PR-400	1	Panel Printer
LC-401		Single Loop Card
LC-402		Dual Loop Card
P-9966A		CAN Class A network card
P-9983		Fiber-optical Network Card
P-9956-Modbus		Modbus Card
P-9981		Zone Display Panel, Bi-color LED x40
P-9981F		Zone Display Panel, R-LED x20, Y-LED x20
P-9982		Zone Display & Control Panel, Bi-color LEDx40,Buttonx20
P-9982F		Zone Display & Control Panel,R-LEDx20,Y-LED x20,Buttonx20

Benefits

User Friendly Features

- Touch Screen
- Graphical Programming
- Built-in printer
- Help information per window
- Real time detector compensation level report
- Email Notification

Improved Maintenance Features

- Support USB dongle for securing project database
- Remote diagnosis via Ethernet

Flexibility

- User defined button
- Multi-language
- Optional external USB Printer
- Support cards hot plug

Network Improvements

- Maximum 250 network nodes
- CAN / Fiber networking
- TCP/IP networking
- panel group Virtual networking

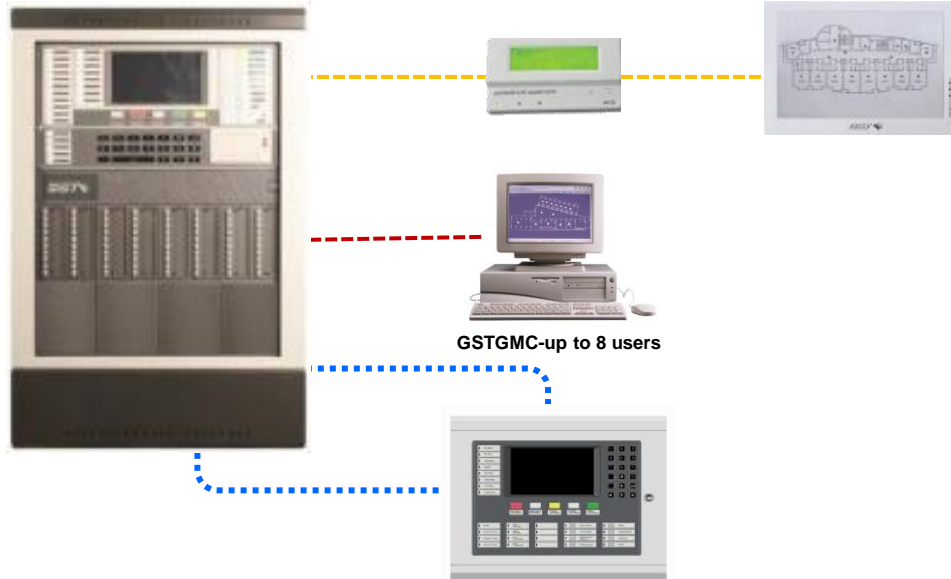
Fire Alarm Control Panel

Loop length under typical loop devices configuration

	Sample configuration 1	Sample configuration 2	Sample configuration 3	Sample configuration 4
Number of smoke detectors	60	80	100	120
Number of heat detectors	8	10	10	15
Number of MCPs	8	10	10	15
Number of input modules	4	4	4	10
Number of output modules	4	4	4	10
Number of loop isolators	2	3	4	5
Total Devices per loop	84	108	128	170
14AWG/2.0mm²	4000m	3300m	2600m	2000m
15AWG/1.65mm ²	3500m	2700m	2200m	1700m
16AWG/1.3mm ²	3000m	2300m	1900m	1400m
17AWG/1.0mm ²	2000m	1500m	1200m	900m

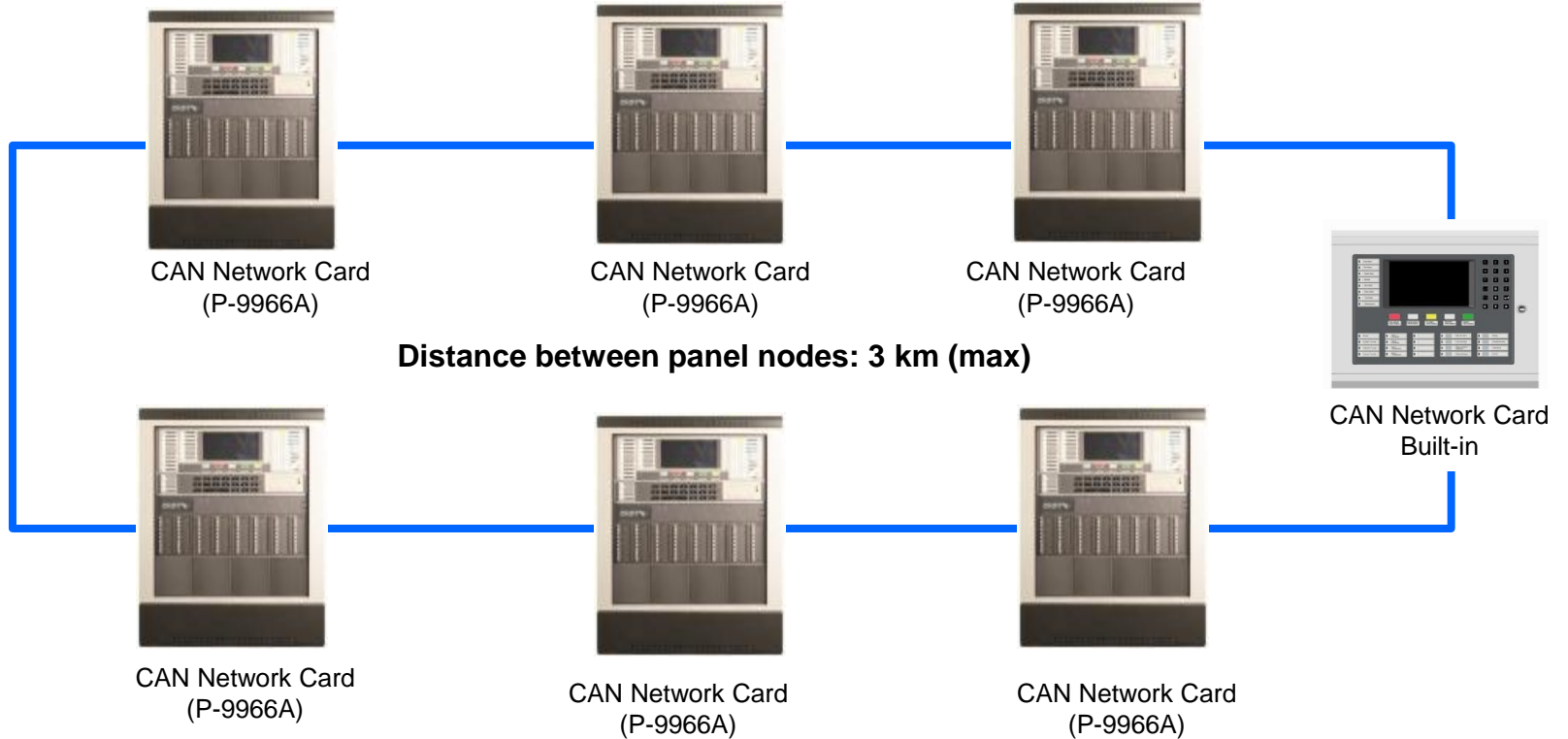
Fire Alarm Control Panel

On Board Repeater circuit, connect up to 64 points
RS485 – 1000meters



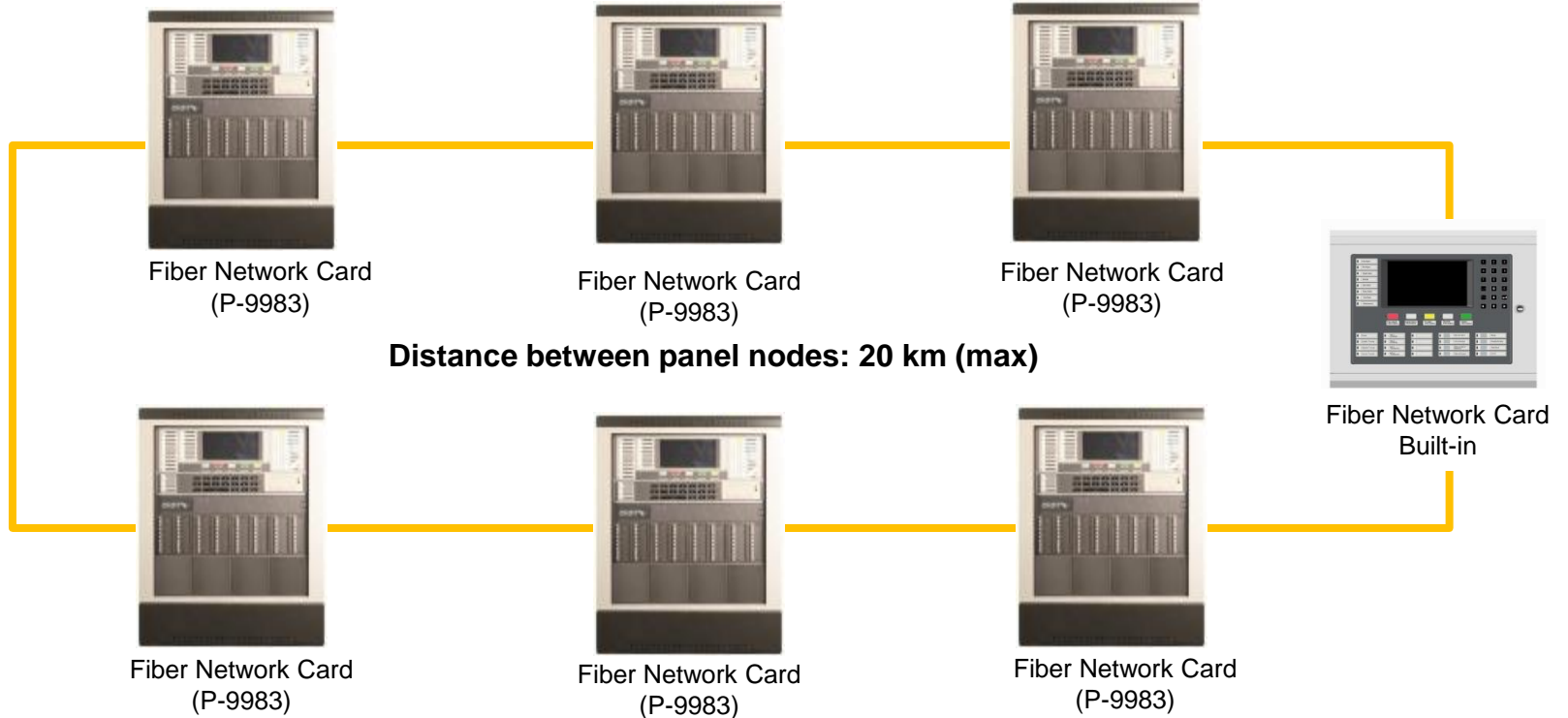
CAN Networking

Max. 250 panels, IFP4M and Annunciator networking



Fiber Networking

Max. 250 panels, IFP4M and Annunciator networking



Network Annunciator

GST-MNA2C: CAN Class A

GST-MNA2F: Fiber-Optic Class A



- 800*480, 7.0 “ colour TFT LCD
- Touch Screen
- Achieve remote control of systems (Reset, Silence, ACK etc.)
- Sortable history capacity of 10,000 alarm, 10,000 supervisory and 100,000 others.
- Password and key protected non-volatile memory
- User programmable password
- PC or key programming options
- Grey, White, Red frame options

UL Field Devices



Detector

Combined Detector DI-M9101



Optical Detector DI-M9102



Heat Detector DI-M9103



- Aesthetics: Low profile detector
- Reliable: Advanced digital communication & Drift compensation
- Easy to install: Electronic addressing using handheld tool
- Easy to test and commission: Magnetic switch for quick alarm testing
- Easy maintenance: Detector stores last 5 events and total number of alarms

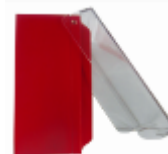


Manual Call Point

Digital Manual Call Point DI-M9204



- Semi-flush or surface mounting
- Standard UL 38
- Re-settable (non-breaking glass)
- LED indicator
- Electronic addressing
- Easy installation and test
- Back box for surface mount
- Ingress Protection Rating: IP 43



D-92FC



D-92WPB

Notification Devices

Sounder Strobe
DC-M9413W/R



Sounder
DC-M9414W/R



Strobe
DC-M9415W/R



- Wall mounted
- Configurable sound level and candela rating
- Synchronized through external module / NAC
- Available in red or white

Notification Devices

**Ceiling Mount
Sounder Strobe (White)
DC-M9416W**



**Ceiling Mount
Sounder Strobe (Red)
DC-M9416R**



**Signal Synchronization
Module
DC-M9410**



- Candela setting (15,30,75 and 90cd) output
- High sounder level output: 88.8-93.6dB
- Enhanced synchronization circuit to comply with the latest requirements of UL 1971 Signaling Devices for the Hearing Impaired.
- Default settings 1 flash per second (fps)
- Wire size 12 to 18 AWG (0.75 to 2.50mm)

Modules

Input module
DI-M9300



Single Input /
Output
DI-M9301



Digital Zone
Monitor
DI-M9319



Single Riser
DI-M9305



Loop Isolator
DC-M9503



- Aesthetics: Compact I/O module
- Easy to install:
 - Electronic addressing using handheld tool
 - DIN or surface mounting
- Easy to test and commission: Integrated LED status indicator

Voice Alarm System

GST Voice Alarm System



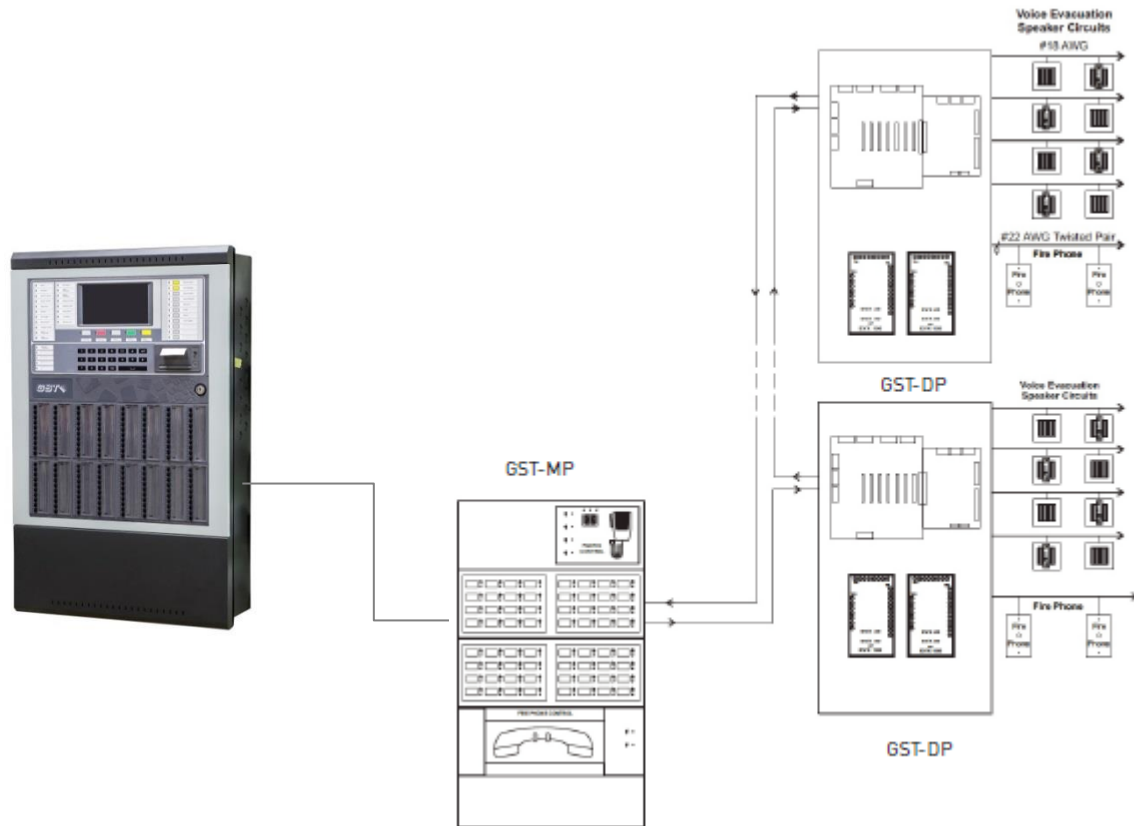
GST-MP Master Panel



GST-DP Distributor Panel

- True multiplex multi channel audio integrated fire phone
- Integrated 2 Channel Digital Message repeater
- Live Microphone Page to any zone
- Built in Standard Alarm and Alert Signals, up to 4 Minute Message Capacity, Optional customized voice message
- Multi options of DP configurations. 25W, 50W or 100W amplifier and Single or Dual channels
- System capacity: up to 256 Distributed Panels, maximum 8 Class A or 4 Class B speaker and 8 fire phone circuits per DP

GST Voice Alarm System



Q & A