Industrial Panel PC

Product Guide

TOUCH · Wi-Fi · FANLESS · CE · FC · VCCI · VIBRATION · IP65

4.3"HMI SERIES

HMI-043T-EM4XX-O

LCD Display	Display Size	4.3' WQVGA TFT LCD
	Resolution (Pixel)	480 x 272
	Colors	16.7M
	View Angle	Vertical 120°, Horizontal 140°
	Backlight Life	20,000 hrs.
	Brightness	300 cd/m²
CPU		ISOC Vortex86EX-400MHz
Contrast Ratio		500: 1
Cache		L1:16KB I-Cache, 16KB D-Cache L2:4-way 128KB L2 Cache
BIOS		Coreboot BIOS
System Memory		Integrated128MB/ 256MB RAM
Storage		512MB (SLC)/ 2GB(MLC)/ 4GB (MLC)+MMC onboard
Watchdog Timer		Software programmable 1sec/0.5s/ 0.25s x 2 sets
LAN		Integrated RJ45 10/100Mbps Ethernet
Audio		HD Audio Realtek CODEC
Serial Port		RS232 x1/ RS485 x2/ CANBus x1
USB		USB3 ports Ver2.0 x 2
Digital I/O		3S/ 2U/ CAN/ LAN/ Audio/ 8CPIO
Power Requirement		+5VDC
Operating Humidity		0% ~ 93% Relative Humidity, Non-Condensing
Dimensions		105.5 x 67.7 x 13.6mm
Weight		250g

S:RS232/422/485,2 USB; GLAN; GigaLan; LPT; Printer; mPCIe+miniPCIe

HMI-043T-EM4XX-BF01

LCD Display	Display Size	4.3' WQVGA TFT LCD
	Resolution (Pixel)	480 x 272
	Colors	16.7M
	View Angle	Vertical 120°, Horizonta 140°
	Backlight Life	20,000 hrs.
	Brightness	300 cd/m²
CPU		DM&P Vortex86EX3-400MHz
Contrast Ratio		300: 1
Cache		L1:16KB I-Cache 16KB C-Cache L2: 4-way, 128KB L2Cache
BIOS		Coreboot BIOS
System Memory		Integrated 128MB/ 256MB RAM
Storage		SD Card/ 512MB(SLC)/ 2GB(MLC)/ 8GB(MLC) eMMC onboard
Watchdog Timer		Software programmable form 30.5s to 512s x 2 sets
LAN		Integrated RJ45 10/100Mbps Ethernet
Audio		N/A
Serial Port		RS-232/ RS-485 Can bus(Optional)
USB		USB ports(Ver2.0)x1
Digital I/O		1U/ 1S
Power Requirement		+7~24VDC
Operating Humidity		0% ~ 90% Relative Humidity, Non-Condensing
Dimensions		129.1 x 96.0 x 34.5mm
Weight		350g

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

HMI-043T-EM4XX-O (front)

HMI-043T-EM4XX-O (back)

HMI-043T-EM4X

Features

4.3" TFT LCD Resistive Touchscreen
DM&P SoC Vortex86EX- 400MHz
128MB / 256MB DDR3 onboard
3S / 2L / LAN / Audio / 8GPIC / CAN / eMMC / 5V
Operation Temperature: 0 ~ -50°C/ -20 ~ +80°C
Expansion I/Opins available
+5VDC @ 3A (Max.)

Operating System

Windows Embedded Compact 7 · Linux · Windows Embedded CE 6.0 · DOS

Features

4.3" TFT LCD Resistive touchscreen
DM&P SoC Vortex86EX- 400MHz
Integated 128MB / 256MB DDR3 onboard
RS-232/485/ Can bus(Optional and USB 2.0 x1
Operation Temperature 0 ~ +57°C/ -20 ~ -60°C
+7 ~ 24VDC

Operating System

Windows Embedded Compact 7 · Linux · Windows Embedded CE 6.0 · DOS

HMI Series with EXm

Product Code	LCD Size	CPU Type	CPU Clock	RAM	Flashonboard	I/C
HMI	043T	EM (EXm)	3 (300MHz)	I (128M)	N (No Flash)	O (Open Frame) B (D type + Case)
					B (512MB; S...C only)	BC (E type + I/O board with case) BC2 (B type + PoE I/O board with case)
					D (2GB; 4LC only)	BC1 (B type + CAN I/O board with case) BF (O type + Case + RF-D)
			4 (400MHz)	2 (256MB)	F (8GB; 4LC only)	BF1 (B type + I/O board with case + RF-D) BF02 (B type + PoE I/C board with case+ RFID) BFC1 (B type + CAN I/C board with case+ RFID)

4.3" HMI SERIES

PN8M SERIES NXP i.MX8M

PN8M-C90T-8A

LCD Display	Display Size	9' WSVGA TFT LCD
	Resolution (Pixel)	1024 x 600
	Colors	16.2M
	View Angle	Vertical 120°, Horizontal 140°
	Backlight Life	20,000 hrs.
	Brightness	300 cd/m²
CPU		NXP i.MX8M Mini 1.6GHz Co-tex-A53 (Quad)
Contrast Ratio		500: 1
Internal Drives		8GB/ 16GB/ 64GB eMMC onboard & Micro SD Slot
OS Support		Yocto Linux (Default)/ Android (Optional)
System Memory		1GB/ 2GB/ 4GB LPDDR4 Memory onboard
WLAN Support		WLAN & Bluetooth (Optional)
LAN		Integrated 10/100/1000Mbps Ethernet
Audio		WM8960 W+B1962 Stereo, Line-out
Serial Por		RS232/485 x1 (COM3
USB		USB2.0 x2
Digital I/O		1S/ 2U/ GLAN/ Audio
Expansion I/C		Mini PCIe Slot w/h Micro SIM Card holder
Power Requirement		Multi-Voltage +12 ~ 36VDC (PN8M-C90T-8A) Single Voltage +5VDC (PN8M-C90T-5A)
Power Cosumption		8 Watt (Typical)
Operating Humidity		0% ~90% Relative Humidity, Non-Condensing
Dimensions		236.6 x 146 x 35mm
Weight		350g

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

Features

9" TFT Resolution LCDwith resistive touchscreen
NXP i.MX8M Mini, Quad-core 1.6GHz ARM Cortex-A53 processor
2GB LPDDR4 onboard
S / 2U / GLAN / Audio / eMMC / MiniPCIe
Operation Temperature: 0 ~ +50°C/ -10 ~ +70°C
eMMC-16GB onboard
MiniPCIe socket with Micro SIM Card holder
Wide power voltage input, +12~36VDC

Operating System

yocto · android

Ordering Information

PN8M-090T-8A-B9GM 2G3 DRAM/ 16GB eMMC/ WLAN&BT/ R"P)
PN8M-090T-8A-N6GM 2G3 DRAM/ 16GB eMMC/ RTP)
PN8M-090T-P8A-E50M (2GB DRAM/ 8GB eMMC/ WLAN&ET/ CTP)
PN8M-090T-P8A-N6GB (2GB DRAM/ 8GB eMMC/ C"P)

PBSW SERIES Braswell

PBSW-090T-8A

LCD Display	Display Size	9' WSVGA TFT LCD
	Resolution (Pixel)	1024 x 600
	Touch Screen	Analog Resistive (Standard / Projectec Capacitive Touch Panel (Option)
	View Angle	Vertical 120°, Horizontal 140°
	Backlight Life	20,000 hrs.
	Brightness	300 cd/m²
CPU		Intel® Braswell Atom x5-E8000 Processor (Quac co e 1.04GHz Burst 2.00GHz) Intel® Braswell Pentium N3710 Processor (Quac co e 1.60GHz Burst 2.56GHz) Intel® Braswell Celeron N3160 Processor (Quac co e 1.60GHz Burst 2.24GHz)
Contrast Ratio		500:
Disk Support		M.2 Sot Support IM Key, SATA interface, 2242)
OS Support		Windows 10(64-bit) Windows 7(64-bit)/ Linux
System Memory		4GB DDR3L Onboard
BIOS		AMI BIOS
LAN		Integrated 10/ 100/ 1000Mbps Etherne:
Audio		HD Audio Realtek CODEC
HSUART Ports		Intel internal SIO HSUART x1 (HSUART is not a stndard RS232 port, and ICOP can offer an add-on RS232 modulef you needa standard RS232 port.)
Serial Por		RS232/ 485 x1 (COM)
USB		USB: 0 x2
Digita I/O		1S/ 2U/ GLAN/ Audio
Expansior I/C		mPCie Slot x1 Micro SIM Card Holder x1
Power Requirement		8A: +12V ~ +28VDC power input by termina block
Storage Temperature		-30°C ~ +80°C
Dimensions		236.6 x 146 x 35mm
Weight		880g

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

Features

9" TFT Resolution LCDwith resistive touchscreen
Intel® Braswell x5-E8000/ x5180/N370 Processor (Quad Core)
4GB DDR3L onboard
S / 2U / GLAN / Audio/ M.2-2242 / MiniPCIe / 12-36V
Operation Temperature: 0 ~ +50°C/ -10 ~ + 60°C
The COM on this device is an Intel Internal SIO HSUART
MiniPCIe socket with Micro SIM Card holder
Wide power voltage input, +12~36VDC

Operating System

Windows 7 · Windows 10 · Linux

Ordering Information

PBSW-090T-8A-E8-4C (x5-E8000/ 4GB DRAM/ RTP)
PBSW-090T-8A-N7-4C (N3710/ 4GB DRAM/ RTP)
PBSW-090T-8A-N8-4C (N3160/ 4GB DRAM/ RTP)
PBSW-090T-P8A-E8-4G (x5-E8000/ 4GB DRAM/ CTP)
PBSW-090T-P8A-N7-4G (N3710/ 4GBDRAM/ CTP)
PBSW-090T-P8A-N8-4G (N3160/ 4GBDRAM, CTP)

PN8M/ PBSW SERIES

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PDX3 SERIES Vortex86DX3

FDX3-057T-8A

LCD Display	Display Size	5.7' TFT LCD
	Resolution (Pixel)	640 x 480
	Colors	262,144
	View Angle	Vertical 100°, Horizontal 140°
	Backlight Life	50,000 hours
	Brightness	300 cd/m²
CPU		DM&P Vortex86DX3-1GHz
Contrast Ratio		500:1
Touch Screen		Analog Resistive/ Capacitive Touch Panel
Cache		L1: 16KB I-Cache, 16KB D-Cache L2: 512KB Cache
BIOS		AMI BIOS
System Memory		1GB/ 2GB DDR3 onboard
Watchdog Timer		Software programable from 30/5s to 512 seconds x 2 sets
LAN		Integrated 10/100M Ethernet
Audio		HD Audio Realtek CODEC
Storage		1Pro SD Slot/ CF Card/ 2GB Nand Flash Onboard (Optional)
USB		USB2.0 x2
Digital I/O		5I/ 2U/ LAN/ Audio
Expansion I/O		4/A
Power Requirement		Multi-Voltage +9 ~ +35VDC (PDX3-057T-8A) Single Voltage +5VDC (PDX3-057T-5A)
Power Consumption		10W (Max.)
Operating Humidity		10% ~ 90% Relative Humidity, Non-Condensing
Dimensions		152 x 112 x 33mm
Weight		600g

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

FDX3-090T-8A

LCD Display	Display Size	9" WSVGA
	Resolution (Pixel)	1024 x 600
	Colors	262,144
	View Angle	Vertical 120°, Horizontal 140°
	Backlight Life	50,000 hours
	Brightness	300 cd/m²
CPU		DM&P Vortex86DX3-1GHz
Contrast Ratio		500:1
Touch Screen		Analog Resistive/ Capacitive Touch Panel
Cache		L1: 16KB I-Cache, 16KB D-Cache L2: 512KB Cache
BIOS		AMI BIOS
System Memory		1GB/ 2GB DDR3 onboard
Watchdog Timer		Software programable from 30/5s to 512 seconds x 2 sets
LAN		Integrated 10/100M Ethernet
Audio		HD Audio Realtek CODEC
Storage		1Pro SD Slot/ CF Card/ 2GB Nand Flash Onboard
USB		USB2.0 x2
Digital I/O		5I/ 2U/ LAN/ Audio
Expansion I/O		4/A
Power Requirement		Multi-Voltage +9 ~ +35VDC (PDX3-090T-8A) Single Voltage +5VDC (PDX3-090T-5A)
Power Consumption		10W (Max.)
Operating Humidity		10% ~ 90% Relative Humidity, Non-Condensing
Dimensions		236.6 x 146 x 35mm
Weight		780g

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

PDX3-090T

PDX3-057T

Features

9" TFT Resolution LCD with resistive touchscreen
DM&P SoC Vortex86DX3- 1GHz
1GB/ 2GB DDR3 onboard
S / 2U / LAN / Audio / CF
Operation Temperature: 0 ~ +50°C/ -20 ~ +60°C
CF socket onboard
Wide power voltage input, +8 ~ 35VDC
Certificate: CE, FCC, VCCI, Shock, Vibration, IP65 (Front panel)

Operating System

Windows Embedded Standard 2009 · Windows Embedded CE · Windows 7 · Linux

Ordering Information

5.7"	9"
PDX3-057T-8A	PDX3-090T-8A
PDX3-057T-8A-2G	PDX3-090T-8A-2G
PDX3-057T-8A-I	PDX3-090T-8A-I
PDX3-057T-8A-2G-I	PDX3-090T-8A-2G-I
	PDX3-090T-P8A
	PDX3-090T-P8A-2G
	PDX3-090T-P8A-I
	PDX3-090T-P8A-2G-I

PDX3 SERIES

PPC SERIES Apollo Lake

PPC-090T-AP_/ PPC-104T-APL/ PPC-150T-APL/ PPC-150P-APL

Model	PPC-090T-APL	PPC-104T-APL	PPC-150T-APL	PPC-150P-APL
Display Size	9" WSVGA	10.4" SVGA	15" XGA	15" XGA
Resolution (Pixel)	1024 x 600	800 x 600	1024 x 768	1024 x 768
Brightness	300 cd/m²	500 cd/m²	350 cd/m²	350 cd/m²
Touch Screen	Analog Resistive/ Capacitive Touch Panel	Analog Resistive		Capacitive Touch Panel
CPU	Intel® Pentium N4200 (Quad)/ Intel Celeron N3350 (Dual)			
System Memory	4GB/ 8GB			
Digital I/O	2S/ 3U/ LAN/ GLAN/ Audio			
Storage	M.2 2242 SATA M-key/ 2.5" SATA HDD/ SSD			
Expansion I/O	Mini PCIe Slot x1/ HDMI 1.4a (Sec DUAL Display)			
Power Requirement	+12VCD Power Adapter			
Operating Temperature	0 ~ +60°C (+32 ~ +140°F)			
Dimensions	242.02 x 156.52 x 50.55mm	273.44 x 219.84 x 56mm	354.84 x 280.84 x 61.8mm	359.63 x 282.98 x 61.65mm

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

PPC SERIES Elkhart Lake

PPC-090T-EHL/ PPC-104-EHL/ PPC-150T-EHL/ PPC-150P-EHL

Mode	PPC-090T-EHL	PPC-104T-EHL	PPC-150T-EHL	PPC-150P-EHL
Display Size	9" WSVGA	10.4" SVGA	15" XGA	15" XGA
Resolution (Pixel)	1024 x 600	800 x 600	1024 x 768	1024 x 768
Brightness	300 cd/m²	500 cd/m²	350 cd/m²	350 cd/m²
Touch Screen	Analog Resistive / Capacitive Touch Panel	Analog Resistive		Capacitive Touch Panel
CPU	Intel® Elkhart Lake J6412 Processor (Quad Core 2.0GHz)			
System Memory	8GB/ 16GB/ 32GB DDR4 Memory			
Digital I/O	2S/ 6U/ 2-IDMI/ 2 2.5GLAN/ Audio/ M.2/12 ~ 24V Power Adapter			
Storage	M.2 M-key(2242/2280)PCIe Gen.3x2/SATA Interface support NVMe			
Expansion I/O	M.2 B-key(3024) USB3.1/ USB2.0 Interface & M.2 E-key(2230) USB2.0/ PCIe Gen.3 x1 Interface			
Power Requirement	+12~+24V Power Adapter			
Operating Temperature	0 ~ +60°C (+32 ~ +140°F)			
Dimensions	242.02 | 156.52 x 50.55mm	273.44 x 219.84 x 56mm	354.84 x 280.84 x 61.8mm	359.63 x 282.98 x 61.5mm

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

PPC-090T-EHL · PPC-104T-EHL · PPC-150T-EHL · PPC-150P-EHL

Features

9/ 10.4"/ 15" TFT Analog Resistive/ Capacitive Touch Panel
Operation Temperature: 0 ~ +60°C
2 external HDMI as second and third display(PPC EHL Series)
Certificate: CE, UKCA, FCC VCCI, Shock, Vibration, IP65 (Front Panel)

Operating System

Windows 10 · Windows 11 · Linux

Ordering Information

9"	10.4"	15"
PPC-090T-APL-N4-4G	PPC-104T-APL-N4-4G	PPC-150P-APL-N4-4G
PPC-090T-APL-N4-8G	PPC-104T-APL-N4-8G	PPC-150P-APL-N4-8G
PPC-090T-APL-PN4-4G	PPC-104T-EHL-J6-8G	PPC-150T-APL-N4-4G
PPC-090T-APL-PN4-8G	PPC-104T-EHL-J6-16G	PPC-150T-APL-N4-8G
PPC-090T-EHL-J6-8G		PPC-150P-EHL-J6-8G
PPC-090T-EHL-J6-16G		PPC-150P-EHL-J6-16G
PPC-090T-EHL-FJ6-8G		PPC-150T-EHL-J6-8G
PPC-090T-EHL-FJ6-16G		PPC-150T-EHL-J6-16G

PPC APL/ EHL SERIES

PPC SERIES Vortex86DX3

PPC-090T-D3/ PPC-104T-D3/ PPC-150T-E3/ PPC-150P-D3

Model	PPC-090T-D3	PPC-104T-D3	PPC-150T-D3	PPC-150P-D3
Display Size	9" WSVGA		15" XGA	
Resolution (Pixel)	1024 x 600	800 x 600	1024 x 768	1024 x 768
Brightness	300 cd/m²	500 cd/m²	350 cd/m²	350 cd/m²
Touch Screen	Analog Resistive/ Capacitive Touch Panel	Analog Resistive		Capacitive Touch Panel
CPU	Vortex86DX3-1GHz(Dual core)			
System Memory	1GB/ 2GB			
Digital I/O	2S/ 3U/ LAN/ GLAN/ Audio			
Storage	CF Card/ SIATA SLIM/ 2GB Nand Flash Onboard			
Expansion I/O	PoE/COM x5/ COM x1 + 16bit GPIO			
Power Requirement	+12V ~ 24VDC			
Operating Temperature	0 ~ +50°C (+32 ~ +122°F)/ -20 ~ +80°C (-4 ~ +140°F)			
Dimensions	242 x 156.5 x 44mm	273.4 x 219.84mm	354.84 x 280.4x66mm	354.9 x 280.9 x 54.8mm

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

PPC-090T-D3 · PPC-104T-D3 · PPC-150T-D3 · PPC-150P-D3

I/O VIEW

Expansion I/O Ports With CustomDesign

- Expansion I/O Ports with Custom Design

Features

8/ 10.4"/ 15" TFT Analog Resistive/ Capacitive Touch Panel
Operation Temperature: 0 ~ +50°C/ -20°C ~ +60°C
Wide power voltage input, +12 ~ 24VDC
Certificate: CE, FCC, VCCI, Shock, Vibration, IP65 (Front Panel)

Operating System

Windows Embedded Standard 2009 · Windows · Windows 7 · Windows Embedded CE · Linux

Ordering Information

9"	10.4"	15"
PPC090T-D3051N	PPC-104T-D3051N	PPC-150P-D3051N
PPC090T-D3051N-GE	PPC-104T-D3051N-GE	PPC-150P-D3051N-GE
PPC090T-D3051N-POE	PPC-104T-D3051N-POE	PPC-150P-D3051N-POE
PPC090T-D3051N-07C	PPC-104T-D3051N-07C	PPC-150P-D3051N-07C
		PPC-150T-D3051N
		PPC-150T-D3051N-GE
		PPC-150T-D3051N-POE
		PPC-150T-D3051N-07C

PPC DX3 SERIES

OPEN FRAME SERIES

i.MX8M Mini / Intel Braswell Family / Vortex86EX2 Series / Vortex86DX3 Series

Model	VOX-070-TS	VOX-065-TS	VOX-084-T1	VOX-090-TS	VOX-104-TS	VOX-150-TS
Display Size	7" WVGA/ WSVGA	6.5" VGA	8.4" SVGA	9" WSVGA	10.4" SVGA	15" XGA
Resolution (Pixel)	800 x 480/ 1024 x 600	640 x 480	800 x 600	1024 x 600	800 x 600	1024 x 768
Brightness	400/ 500 cd/m²	810 cd/m²	250 cd/m²	300 cd/m²	200 cd/m²	350 cd/m²
Touch Screen	Analog Resistive					
CPU	Vortex86EX2-800MHz/ NXP i.MX6M 4ini	Vortex86DX-933Mhz/ Vortex86DX3-1GHz/ Intel® Braswell x5-E8000/ N3710/ N3160/ 8" Support NXP i.MX8M Mini				
System Memory	1GB/ 2GE	1GB/ 2GB/ 4GB				
Storage	eMMC onboard/ SD Slot	SATA/ mSATA/ eMMC onboard for NXP i.MX8M Mini only				
Expansion I/O	mPCIe Slot					
Power Requirement	+12 ~ 36VDC	+5VDC& +12VDC/ +12VCD/ +12VDC ~ 35VDC				
Operating Temperature	0 ~ +50°C (+32 ~ +122°F)/ -20 ~ +60°C (-4 ~ +140°F)					

S:RS232/422/485; U-USB; GLAN; GigaLan; LPT+Printer; mPCIe+miniPCIe

VOX-065-TS · VOX-070-TS · VOX-084-S · VOX-090-T1 · VOX-104-TS · VOX-150-TS

Features

6.5" / 7" / 8.4" / 9" / 10.4" / 15" TFT Analog Resistive Touch Panel
Operating Temperature: 0 ~ +50°C / -20°C ~ +60°C
Wide power voltage input, +12 ~ 36VDC for VOX-070-TS-EX2, VOX-070-TS-N8M and VOX-090-TS-N8M series
Single power voltage input, +12VDC for VOX-084-TS-E4 VOX-090-TS-E4, VOX-104-TS-E4 and VOX-150-TS-E4 series
Multi-voltage input, +12VDC and +5VDC for VOX-065-TS-D3, VOX-084-FS-D3, VOX-010-TS-D3, VOX-104-TS-D3, VOX-150-TS-D3 series

Operating System

Windows Embedded Standard 2009 · Windows · Windows 7 · Windows Embedded CE · Windows 10 · Windows 11 · Linux

Ordering Information

VOX-070-TS	VOX-065-TS	VOX-084-TS	VOX-090-TS	VOX-104-TS	VOX-150-TS
VOX-070-TS-N8M-N50M	VOX-065-TS-CE	VOX-084-TS-A4	VOX-090-TS-E4	VOX-104-TS-E4	VOX-150-TS-E4
VOX-070-TS-N8M-B50M	VOX-065-TS-CE	VOX-084-TS-B2	VOX-090-TS-A4	VOX-104-TS-A4	VOX-150-TS-A4
VOX-070-TS-N8M-N50M	VOX-065-TS-CE-2G	VOX-084-TS-D2	VOX-090-TS-B4	VOX-104-TS-B4	VOX-150-TS-B5
VOX 070 TS N8M B50M		VOX 084 TS D3	VOX 090 TS N8M-N50M	VOX 104 TS D2	VOX 150 TS D2
VOX-070-TS-EX2-V4		VOX-084-TS-D3-2G	VOX-090-TS-N8M-B50M	VOX-104-TS-D3	VOX-150-TS-D3
VOX-070-TS-EX2-V			VOX-090-TS-D2	VOX-104-TS-D3-2G	VOX-150-TS-D3-2G
VOX-070-TS-EX2-V-2G			VOX-090-TS-D3		
VOX-070-TS-EX2C8-V			VOX-090-TS-D3-2G		

OPEN FRAME SERIES