

SERVIS™

Cat5 Wide Band Extender

FE-1000CW series - NC14004-B721/U

The **SERVIS™ family Cat5 Wide Band Extender** enables the user to operate a control console with a high-resolution monitor via Cat5E UTP cable, up to a distance of 300 meters.

Through efficient design, the FE-1000CW provides a compact and easy to install extender.

■ FEATURES

Compact low-profile design saves space

The FE-1000CW is a compact unit designed specifically for remote location of a keyboard, mouse, and monitor used for administration and operation of PCs and servers. It measures 110mm (W)x100mm (D)x25mm (H).

Achieves problem-free image quality at remote distance of 300 meters

XGA (1,024 x 768 dots) and SXGA (1,280x1,024 dots) are supported to 300 meters, UXGA (1,600x1,200 dots) to 200 meters.

Equipped with compensating adjustments to provide optimum image quality

Brightness and Contrast can be adjusted independently via controls on the receiver unit.

Superior RGB color-shift correction circuit (patent pending)

Any color shift (skew) due to differences in signal line length inside the Cat5E UTP cable are eliminated, resulting in clear and crisp reproduction of video signal.

Multiple platforms supported

Our long experience as a leading keyboard design company enables these new products to support a variety of keyboard and mouse interfaces. This series provides a multi-interface platform that can be connected to any system equipped with PS/2, PC USB, SUN 8P I/O, or SUN USB simply by selecting the suitable cable. The video interface supports the D-sub15-pin as standard; 13W3 Sun video interface supported with optional conversion adaptor; Separate and Composite sync supported.

Additional local console connection provided

A local console can be supported by the local unit in the computer room.

Easy to configure remote system access using Cat5E UTP cables

Installation is simple and easy using industry-standard Cat5E UTP cables, same as used in LAN applications (installation of separate remote console cable is required in addition to existing LAN cables).

Available options for equipment installation

A bracket for magnetic attachment to the side of a desk is available. This option helps enable a space-saving and streamlined installation.

Combine with KVM switch for system-wide access

The **SERVIS Cat5 Extender** can be combined with KVM switches (**SERVIS series**) and console drawers (**SERVIS Drawer**), enabling the remote operation of multiple servers from a distant location.



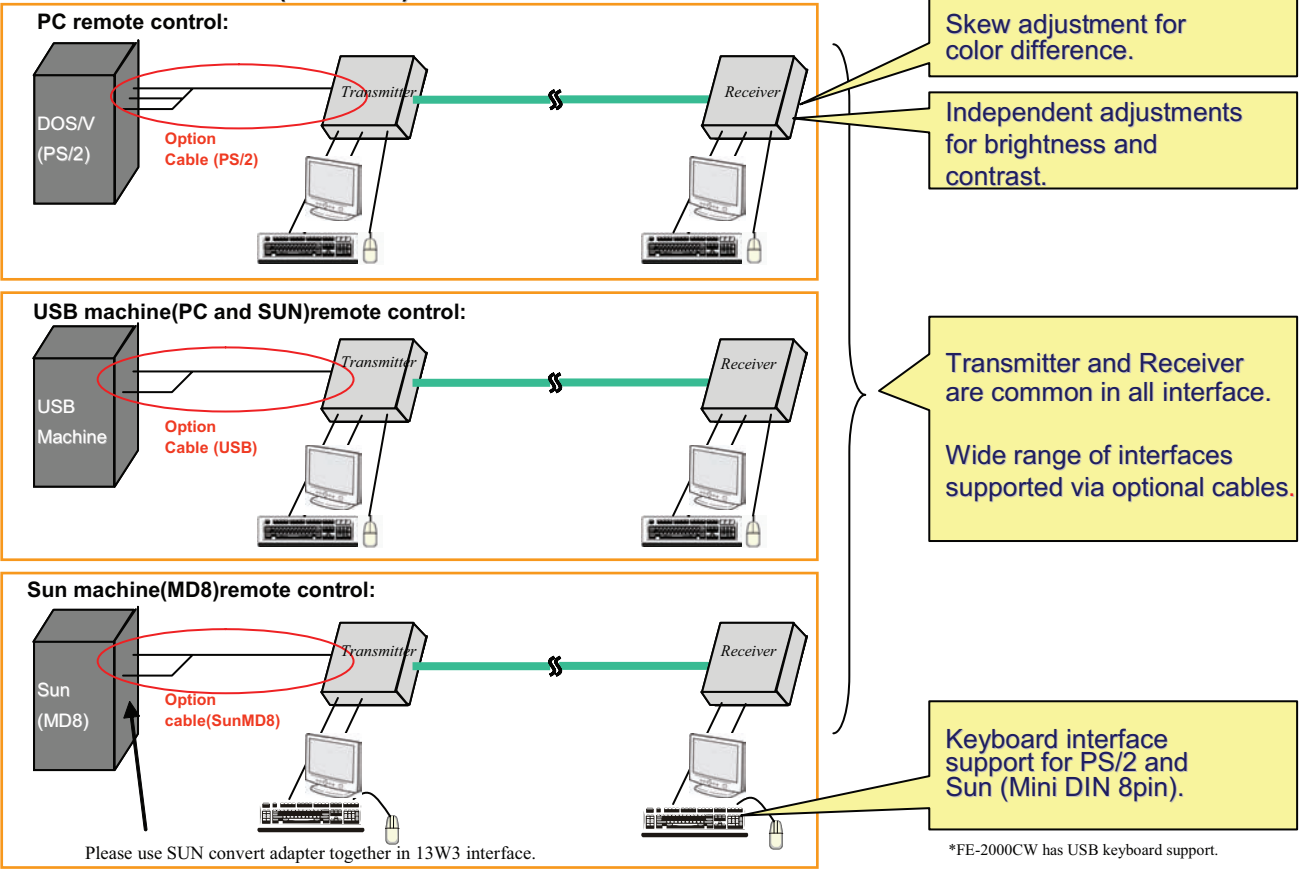
FE-1000CW Series

■ SPECIFICATIONS

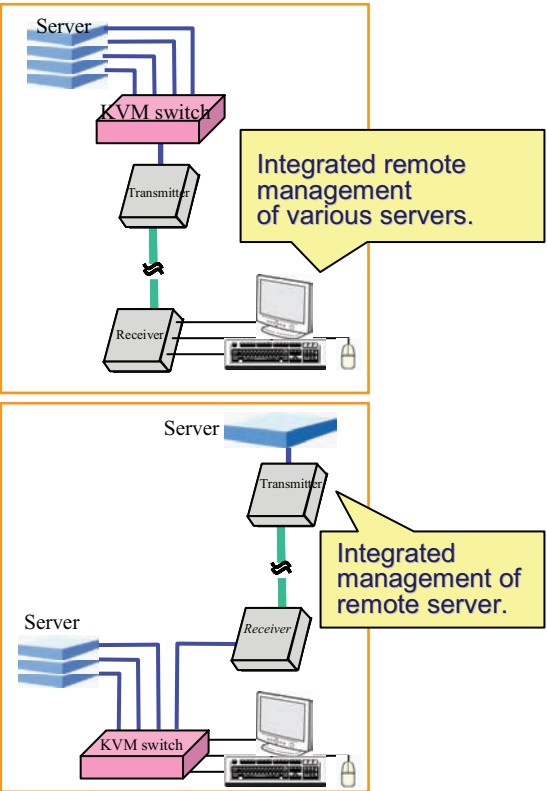
Model		FE-1000CW		
Part Number		NC14004-B721/U		
Unit		Local Extender(Transmitter)	Remote Extender(Receiver)	
LED Display	Power (green)	1 each	1 each	
Console	Keyboard	PS/2 Interface: Mini-Din 6pin, Female x 1	PS/2 Interface: Mini-Din 6pin, Female x 1	
		Sun I/O Interface: Mini-Din 8pin, Female x 1	Sun I/O Interface: Mini-Din 8pin, Female x 1	
	Mouse	PS/2 Interface: Mini-Din 6pin, Female x 1	PS/2 Interface: Mini-Din 6pin, Female x 1	
Server / PC port	Interface for Server/PC side	Keyboard	PS/2, USB, Sun USB and I/O	-
		Mouse	PS/2, USB, Sun USB and I/O	-
		Audio	Audio line out	-
		Monitor	Analog RGB, Separate Sync and Composite Sync.	-
	Connector for Unit side	Keyboard/Mouse/Monitor	Mini D-Sub 15pin female, required for unique cable for support server	-
Monitor	Resolution, refresh rate		1600 x 1200 (max.), 75Hz	
	Signal supported		Separate Sync. and Cposite Sync.	
Connection between Transmitter and Receiver unit	Data Transmission		Fujitsu Component Limited unique data transmission	
	Console control port		RJ45 (Cat5) 8 line x 1	
	Cable		Cat5E UTP cable	
	Distance (by monitor resolution)	UXGA: 1600x1200	200 m	
		SXGA: 1280x1024	300 m	
XGA: 1024x768		300 m		
Monitor Graphic adjustment	RGB Skew		-	Adjustable by control knob (max @ 20ns), located inside unit. Open the enclosures.
	Gain Adjustment/Brightness		-	Adjustable by control knob on front panel
	Equalizer adjustment/Focus		-	Adjustable by control knob on front panel
Keyboard Country Code		Supported by Dip Switch setting		-
Power Supply/Power Consumption		5VDC/0.7A (max.)		DC5V/0.7A (max),
Operating temperature/Humidity		0 to 40 degrees C, 20 to 80 %RH (must be free of condensation)		
Storage temperature		-20 to 60 degrees C		
Size(WxDxH)		110 x 100 x 25 mm, (0.33 Kg)		110 x 100 x 25 mm, (0.36 Kg)
Included accessories		1 adaptor (AC power cable not included, must be purchased separately for specific country support), User manual, 1 masking sticker, 1 cable clamp, 1 adjustment Stylus, 1 ferrite cores		

Keyboard, Mouse and Monitor extension

FE-1000CW/FE-2000CW (Common)



Combination with KVM switch



FE-1000CW Series

■ OPTIONAL ACCESSORIES

Item	Part Number	Description	
Optional Interface Cables	PS/2	NC14000-B602	1.8m cable
		NC14000-B603	3.0m cable
		NC14000-B605	5.0m cable
	USB	NC14000-B102	1.8m cable
		NC14000-B103	3.0m cable
		NC14000-B105	5.0m cable
	SUN MD8	NC14000-B202	1.8m cable
		NC14000-B203	3.0m cable
		NC14000-B205	5.0m cable
Sun Convert Adaptor	NC14003-T042/ADP	13W3 converting to DB15HD	
AC Adaptor	NC14003-T055	In case local is connected to the KVM which does not provide the power	
AC Adaptor power cable	NC14004-T077	USA version	
Audio cable	NC14004-B722	Connects the server to the transmitter	
Rack mount panel	NC14004-B323/B	19" rack mount panel for FE-2000 series	
L-shape metal bracket kit (2pcs)	NC14004-B370	Magnet brackets for FE-1000 series	
VESA metal holder	NC14004-B371	Metal holder for FE-1000 series	

Note:

Cat5 cables:

1. Cat5E cables are required for connection between the local and remote units, whose transmission performance shall be higher than 350 MHz UTP.

Otherwise, the the transmission performance cannot be controlled by skew adjustment.

2. The connection type shall be straight connection. In addition, it shall be decided T568A or T568B inside the system.

3. STP cable cannot be used.

■ SERVIS Families

KVM			
Model/Series		Part Number	Description
SERVIS 2: FS-102ATL	2-port	NC14004-T256/US	FS-102ATL 2-port US version
SERVIS MULTI: FS-1004MT	4-port KVM	NC14004-B042	FS-1004MT 4-port multi KVM switch
SERVIS MULTI: FS-1008MT	8-port KVM	NC14004-B082	FS-1008MT 8-port multi KVM switch
SERVIS MULTI: FS-1016MT	16-port KVM	NC14004-B162	FS-1016MT 16-port multi KVM switch
DRAWER			
Model/Series		Part Number	Description
SERVIS LCD Drawer: FD-1000AT	Basic model	NC14004-B402/US	15" AT Console drawer, US version (LCD:XGA, Input Device I/F: PS/2)
	with built-in 8-port Multi-KVM	NC14004-B412/US	15" AT Console drawer, US version with 8-port multi-KVM pre-installed (LCD:XGA)
	with built-in 16-port Multi-KVM	NC14004-B422/US	15" AT Console drawer, US version with 16-port multi-KVM pre-installed (LCD:XGA)
SERVIS LCD Drawer: FD-1100	Basic model	NC14004-B452/US	17" Console drawer, US version (LCD: SXGA, Input Device multi-interface)
	with built-in 8-port Multi-KVM	NC14004-B462/US	17" Console drawer, US version with 8-port multi-KVM pre-installed (LCD: SXGA)
	with built-in 16-port Multi-KVM	NC14004-B472/US	17" Console drawer, US version with 16-port multi-KVM pre-installed (LCD: SXGA)
Cat5Extender			
Model/Series		Part Number	Description
Cat5 Basic series		NC14004-B713	200 m Cat5 Extender Kit of local and remote units (XGA:30-200m, SXGA:30-150m), remote unit to be console port only, support audio remote
Cat5 Wide Band: FE-1000CW		NC14004-B721/U	300 m Cat5 Extender Kit of local and remote units, remote unit to be console port only, compact size: 110 (W) x 100 (D) x 25 (H)mm
Cat5 Wide Band: FE-2000CW		NC14004-B717/U	300 m Cat5 Extender Kit of local and remote units, remote unit to be console port only, support audio and touchpanel (RS232: Tx, D, Rx only)

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