

# Direct Broadcast Satellite

## Product Catalog



Quality System Certifications  
ISO 9001:2008  
ISO 14001:2004  
ISO/TS 16949:2009  
BS-OHSAS:18001  
ANSI/ESD S20.20  
IECQ QC080000



# EMEA Market Europe / Middle East / Africa

## Universal LNBF

FT8-R



10.70 GHz–12.75 GHz

FQ8-R



10.70 GHz–12.75 GHz

FV8



10.70 GHz–12.75 GHz

FU8



10.70 GHz–12.75 GHz

### Universal PLL Twin LNBF

- Feed design for 0.6 F/D–ratio dishes
- Stable L.O. performance
- L.O.: 9.75 GHz & 10.6 GHz

### Universal PLL Quad LNBF

- Feed design for 0.6 F/D–ratio dishes
- Stable L.O. performance
- L.O.: 9.75 GHz & 10.6 GHz

### Universal Single LNBF

- Straight-type universal single LNBF
- L.O.: 9.75 GHz & 10.6 GHz

### Universal Quattro LNBF

- Four-output universal LNBF for applications in multiple dwelling units
- L.O.: 9.75 GHz & 10.6 GHz

## Monoblock LNBF

F38-S



10.70 GHz–12.75 GHz

FB8-S



10.70 GHz–12.75 GHz

### Universal 3° Monoblock Single

- Dual-beam 3° one-output LNBF with an 80 cm to 85 cm dish
- Also supports 4° satellite reception (9° E + 13° E) with a 65 cm to 70 cm dish
- L.O.: 9.75 GHz & 10.6 GHz

### Universal 6° Monoblock Single

- For Eutelsat 13° E/Astra 19.2° E with an 80 cm to 85 cm dish

## VSAT ODU

VS9



Tx: 29.5 GHz–30 GHz  
Rx: 18.3 GHz–20.2 GHz

### VSAT Smart ODU

- Receives Ka/Ka–band satellite signals and can send F-sim packets in either Ka band
- Circular pol./independently switchable
- Acts as an electrically interactive feed integrating a satellite modem and IP router that can be mounted onto a consumer-grade satellite dish

## VSAT IDU

VIA-I



Tx: 950 MHz–2,400 MHz  
Rx: 950 MHz–2,150 MHz

### UWB Satellite Modem

- In-home Internet access via satellite broadband services
- Powerful DSP supporting DVB-S2/S2X standards
- Easily functions with C-band, Ku-band and Ka-band VSAT ODUs for a variety of satellite Internet services

## Digital Single-Cable Solution

FR8-924D



10.70 GHz–12.75 GHz

### dCSS LNBF

- 24 dCSS UBs
- Three dCSS output ports
- Feed design for 0.6 F/D–ratio dishes
- L.O.: 9.75 GHz & 10.6 GHz

FR8-A121



10.70 GHz–12.75 GHz

### dCSS LNBF

- 16 dCSS UBs
- One dCSS output port
- Feed design for 0.6 F/D–ratio dishes
- L.O.: 9.75 GHz & 10.6 GHz

## Circular LNBF

FT3-CR



11.70 GHz–12.75 GHz

FT4-CR3



11.70 GHz–12.75 GHz

FF4-CR



11.70 GHz–12.75 GHz

### Circular Ku-Band Single LNBF

- Single-output LNBF
- L.O.: 10.75 GHz

### Circular Ku-Band Twin LNBF

- Two-independent-output LNBF
- L.O.: 10.75 GHz

### Circular Ku-Band Quad LNBF

- Four-independent-output LNBF
- L.O.: 10.75 GHz

# Japan Market

## 2K BS/CS LNBF

### FV4-CJS

11.70 GHz–12.75 GHz



#### Single-Pol. 2K BS 110° CS LNBF

- Straight type; compact size
- Super low-noise LNBF
- For single-pol. BS 110° CS reception
- Feed design for 0.6 F/D ratio dishes
- L.O.: RHCP 10.678 GHz

### FV4-CNS

11.70 GHz–12.75 GHz



#### Single-Pol. 2K BS 110° CS LNBF

- Straight type; compact size
- Super low-noise LNBF
- For single-pol. BS 110° CS reception
- Feed design for 0.46 F/D ratio dishes
- L.O.: RHCP 10.678 GHz

### BF4

11.70 GHz–12.75 GHz



#### Single-Pol. 2K BS 110° CS LNBF

- ± 7 kV surge protection
- Super low-noise LNBF
- For single-pol. BS 110° CS reception
- Feed design for 0.46 F/D-ratio dishes
- L.O.: RHCP 10.678 GHz

## 4K/8K BS/CS LNBF

### FBJ4

11.70 GHz–12.75 GHz



#### Dual-Pol. 4K/8K BS 110° CS LNBF

- ± 7 kV surge protection
- Super low-noise and high-isolation LNBF
- For dual-pol. 4K/8K BS 110° CS reception
- Feed design for 0.6 F/D ratio dishes
- L.O.: RHCP 10.678 GHz & LHCP 9.505 GHz

## 4K/8K Triple Beam LNBF

### FSP4

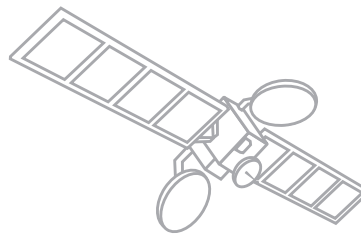
CS 124°/128° LNBF:  
12.20 GHz–12.75 GHz

BS 110° CS:  
11.70 GHz–12.75 GHz



#### Sky PerfectTV 4K/8K Triple Beam LNBF

- Super low-noise and high-isolation LNBF
- For 4K/8K BS 110° CS, 4K/8K CS 124°, and 4K/8K CS 128° reception
- Feed design for 0.6 F/D ratio dishes
- 4K/8K BS 110° CS L.O.: RHCP 10.678 GHz & LHCP 9.505 GHz
- 4K/8K CS 124°/128° L.O.: 11.2 GHz



# Asia Pacific Market

## Universal LNBF

### FG8

10.70 GHz–12.75 GHz



#### Universal Single LNBF

- PLL single LNBF
- Straight type; compact size
- LO: 9.75 GHz & 10.6 GHz

### FI3-LK3

11.70 GHz–12.75 GHz



#### Dual-Pol. Ku-Band LNBF

- PLL Single LNBF
- Straight type; compact size

## Low-Current-Consumption LNBF

### FT4-M-LC

11.70 GHz–12.75 GHz



#### Ku-Band Twin LNBF with the latest low-current design

- Two-independent-output LNBF
- Total LNBF power consumption reduced by over 50% (compared to the previous generation)
- L.O.: 10.70 GHz

### FF4-M-LC

11.70 GHz–12.75 GHz



#### Ku-Band Quad LNBF with the latest low-current design

- Four-independent-output LNBF
- Total LNBF power consumption reduced by over 50% (compared to the previous generation)
- L.O.: 10.70 GHz



# Latin America Market

## Linear LNBF

### FT8-R

10.70 GHz–12.75 GHz



#### Ku Band Universal PLL Twin LNBF

- Feed design for 0.6 F/D-ratio dishes
- Stable L.O. performance
- L.O.: 9.75 GHz & 10.6 GHz

### FQ8-R

10.70 GHz–12.75 GHz



#### Universal PLL Quad LNBF

- Feed design for 0.6 F/D-ratio dishes
- Stable L.O. performance
- L.O.: 9.75 GHz & 10.6 GHz

### FS2-MX

Input frequency:  
11.7 MHz–12.2 GHz



#### Elliptical Single LNBF

- For 78.8° W or 58.0° W service
- Elliptical single LNB
- Linear polarization
- LO: 10.75 GHz

### FS4-MX

Input frequency:  
11.7 MHz–12.2 GHz



#### Elliptical Twin LNBF

- For 78.8° W or 58.0° W service
- Elliptical dual LNB
- Linear polarization
- LO: 10.75 GHz

### FB6-MX

Sat. 79° W: 11.7 MHz–12.2 GHz  
Sat. 76° W: 11.7 MHz–12.2 GHz



#### Dual Stacked LNBF

- For 76.2° W/78.8° W service
- Two outputs

### SF6-LA

10.95 GHz–11.2 GHz  
11.45 GHz–12.2 GHz



#### Dual LNBF

- Feed design for 0.6 F/D-ratio dishes
- L.O.: 13.1 GHz & 10.5 GHz

## Digital Single-Cable Solution

### FR8-D315

10.70 GHz–12.75 GHz



#### dCSS LNBF

- 15 dCSS UBs
- One dCSS output port
- Feed design for 0.6 F/D-ratio dishes
- L.O.: 9.75 GHz & 10.6 GHz

### FD1-LA

10.95 GHz–11.2 GHz  
11.45 GHz–12.2 GHz



#### Digital SWM LNBF

- Digital SWM LNBF for DIRECTV Latin America

### FS2-EM

Sat.: 12.06 GHz–12.68 GHz  
Terr.: 174 MHz–700 MHz



#### Ku Band CASS Twin LNBF

- Feed design for 0.6 F/D-ratio dishes
- L.O.: 10.55 GHz & 11.25 GHz
- Supports MDU installations as a one-cable solution
- Supports VHF/UHF/satellite bands
- Terr.: 174 MHz–700 MHz

## Antenna System

### AM6

11.70 MHz–12.20 GHz



#### Elliptical Antenna

- For 78.8° W or 58.0° W service
- Dish size: 89 cm × 50.8 cm
- F/D ratio = 0.67

## Multiswitch

### SWA-34

Sat. frequency: 950 MHz–2,150 MHz  
Terr. frequency: 54 MHz–806 MHz



#### 3 × 4 Multiswitch

- Three inputs with terrestrial input and four outputs

### SWA-38

Sat. frequency: 950 MHz–2,150 MHz  
Terr. frequency: 54 MHz–806 MHz



#### 3 × 8 Multiswitch

- Three inputs with terrestrial input and eight outputs

# North America Market

## Ka/Ku LNB

### SL5RB (AU6)

12.2 GHz–12.7 GHz  
18.3 GHz–18.8 GHz  
19.7 GHz–20.2 GHz  
17.3 GHz–17.8 GHz (RB)



#### Multibeam LNB

- Multibeam LNB for 99°/101°/103°/110°/119° DIRECTV Ka/Ku/Ka/RB CONUS signal reception

### 5D2RB (FD6)

12.2 GHz–12.7 GHz  
17.3 GHz–17.8 GHz  
18.3 GHz–18.8 GHz  
19.7 GHz–20.2 GHz



#### Multibeam Digital SWM LNB

- Multibeam digital SWM LNB for 99°/101°/103°/110°/119° DIRECTV Ka/Ku/Ka/RB CONUS signal reception

### SL3RBAH (AU4)

12.2 GHz–12.7 GHz  
18.3 GHz–18.8 GHz  
19.7 GHz–20.2 GHz  
17.3 GHz–17.8 GHz (RB)



#### Multibeam LNB

- Multibeam LNB for 99°/101°/103° DIRECTV Ka/Ku/Ka/RB CONUS signal reception

### 3D2RB (FD4)

12.2 GHz–12.7 GHz  
18.3 GHz–18.8 GHz  
19.7 GHz–20.2 GHz  
17.3 GHz–17.8 GHz (RB)



#### Multibeam Digital SWM LNB

- Multibeam digital SWM LNB for 99°/101°/103° DIRECTV Ka/Ku/Ka/RB CONUS signal reception



**WNC**

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