

# Product overview



*Effective from: January 1st, 2017*

## BarnOne Frames

Order Number	Description
BTF1-01	16 SFP ports
BTF1-02	16 SFP ports and 16 BNC
BTF1-03-08	16 SFP ports and a 8 or 16 channel CWDM mux/de-mux built in.
BTF1-03-16	16 SFP ports and a 8 or 16 channel CWDM mux/de-mux built in.
BTF1-04	32 SFP ports
BTF1-05-08	16 SFP ports and 2X 8 or 16 channel CWDM mux/de-mux built in.
BTF1-05-16	16 SFP ports and 2X 8 or 16 channel CWDM mux/de-mux built in.
BTF1-06	24 SFP ports, 8 BNC
BTF1-07-08	16 SFP ports, 8 BNC and a 8 or 16 channel CWDM mux/de-mux built in.
BTF1-07-16	16 SFP ports, 8 BNC and a 8 or 16 channel CWDM mux/de-mux built in.
BTF1-08-08	24 SFP ports and a 8 or 16 channel CWDM mux/de-mux built in.
BTF1-08-16	24 SFP ports and a 8 or 16 channel CWDM mux/de-mux built in.
BTF1-10	16 SFP ports, 8 BNC and 8 ch. Analog audio embedding / de-embedding

All base frames are 1RU-19". Price includes single PSU, control card and BarnStudio software for configuration and control.

All BarnOne frames from Barnfind have internal 32x32 crosspoint-switch for routing and channel swapping/duplication. Both optical and electrical outputs have reclockers to ensure perfect signal out. Both SFPs and BNCs are bi-directional.

*\*see 'Accessories' for redundant PSU, cables etc.*

## BarnMini

Order Number	Description
BarnMini 01	BNC TX/RX, SFP port for transceiver (TX/RX), incl. PSU.
BarnMini 02	2xSFP port for transceiver (TX/RX), incl. PSU.
BarnMini 03	HDMI-SFP, HDMI RX, SFP port for transmitter (TX), incl. PSU.
BarnMini-04	SFP-HDMI, HDMI TX, SFP port for receiver (RX), incl. PSU.
BarnMini 05	12 ports GPI/O through ethernet / fiber, incl. PSU.

BarnMini 06	Optical Changeover Switch (OCS) 1x2, GPI controlled, incl. PSU
BarnMini 07-2935	4-Ch. CWDM Mux/Demux, Simplex Directional Transmission. λ1290- 1350
BarnMini 07-3743	4-Ch. CWDM Mux/Demux, Simplex Directional Transmission. λ1370- 1430
BarnMini 08-1:2	Optical splitter, 1:2 out.
BarnMini 08-1:4	Optical splitter, 1:4 out.
BarnMini 11	BNC TX/RX, SFP port for transceiver (TX/RX). Up to 12G SDI, incl. PSU
BarnMini 12	2 x SFP port for transceiver (TX/RX). up to 12G SDI, incl. PSU
BTF-Mini-16	2.5RU frame for housing of up to 16 BarnMinis, incl. PSU.

Any SFPs in our product list are compatible with the BarnMini series.

*\*see 'Accessories' for redundancy PSU, cables etc.*

## Housing For LGX Modules

Order Number	Description
BT-HOUS-LGX-1RU	Barnfind standard empty chassis for up to 4 LGX Boxes in 1RU

## CWDM Mux/Demux

CWDM modules in LGX box, fit into  
BT-HOUS-LGX-1RU Chassis

Order Number	Description
BT-WDM-LGX	2 channels in LGX box stand-alone
BT-CWDM-MUX-08-LGX	8 channels in LGX box stand-alone
BT-CWDM-MUX-16-LGX	16 channels in LGX box stand-alone
BT-CWDM-MUX-18-LGX	18 channels in LGX box stand-alone

*\* Other CWDM configuration on request.*

## Optical Splitters

splitter modules in LGX box, fit into  
BT-HOUS-LGX-1RU chassis

Order Number	Description
BT-SPLIT-2-LGX	Passive distribution of optical signals 1:2 out
BT-SPLIT-4-LGX	Passive distribution of optical signals 1:4 out
BT-SPLIT-8-LGX	Passive distribution of optical signals 1:8 out

*\* Other optical splitters on request.*

## Optical Changeover Switch

switch module in LGX box, fit into  
BT-HOUS-LGX-1RU chassis

Order Number	Description
BT-OCS-2-LGX	Optical changeover 2:1, Non- latching

\* Other optical changeover switch on request.

## DWDM Mux/Demux

DWDM systems in 1RU/2RU Rack-Mount chassis

Order Number	Description
BT-DWDM-MUX-32-1RU	32 channels in 1RU
BT-DWDM-MUX-44-1RU	44 channels in 1RU

\* Other larger DWDM configuration on request.

## SFP - Initial selection

How to read a SFP label:

**BTSFP-LX-SM-3G02** : **BTSFP** [barnfind SFP] –**LX** [nm=1310] –**SM** [single mode] –**3G** [max. data rate] –**02** [max. transmitting distance in km]  
 LX = wavelength is 1310nm    ZX = wavelength is 1550nm  
 SM = Single mode                      MM= Multi mode

\* All transmission distances indicated here are just for reference. An optical budget loss is required to retrieve the precise transmission performance.

### SFP Transceiver modules - Single Mode

Order Number	Max. Data Rate	Distance	nm	Compatible
BTSFP-LX-SM-0220	1.25Gbps	20km	1310nm	1000Base Ethernet
BTSFP-LX-SM-0240	1.25Gbps	40km	1310nm	
BTSFP-ZX-SM-0280	1.25Gbps	80km	1550nm	
BTSFP-LX-SM-0310	2.125Gbps	10km	1310nm	-
BTSFP-LX-SM-0340	2.125Gbps	40km	1310nm	
BTSFP-ZX-SM-0380	2.125Gbps	80km	1550nm	
BTSFP-LX-SM-3G02	3Gbps	2km	1310nm	SDI,HD-SDI and 3G-SDI
BTSFP-LX-SM-3G20	3Gbps	20km	1310nm	
BTSFP-ZX-SM-3G40	3Gbps	40km	1550nm	
BT-LX-SM-10G20	10Gbps	20km	1310nm	10G
BTSFP-LX-SM-6G	6Gbps	20km	1310nm	6G/3G/HD/SD-SDI
BTSFP-LX-SM-12G	12Gbps	10km	1310nm	12G/6G/3G/HD-SDI

\* This is only an initial selection. Other possibilities on request.

### SFP Transceiver modules - Multi Mode

Order Number	Max. Data Rate	Distance	nm	Compatible
BTSFP-MM-1G550	1Gbps	550m	850nm	10/100 Fast Ethernet
BTSFP-LX-MM-1G	1Gbps	2km	1310nm	Ethernet, MADI
BTSFP-MM-2G550	2Gbps	550m	850nm	SDI-HD
BTSFP-MM-3G02	3Gbps	2km	1310nm	3G

### SFP - BIDI Single Mode Transceiver modules

Order Number	Max. Data Rate	Distance	nm	Compatible
BTSFP-WDM-0220A	1.25Gbps	20km	T1310/R1550nm	
BTSFP-WDM-0220B			T1550/R1310nm	
BTSFP-WDM-0240A	1.25Gbps	40km	T1310/R1550nm	
BTSFP-WDM-0240B			T1550/R1310nm	
BTSFP-WDM-0310A	2.5Gbps	10km	T1310/R1550nm	
BTSFP-WDM-0310B			T1550/R1310nm	
BTSFP-WDM-0340A	2.5Gbps	40km	T1310/R1550nm	
BTSFP-WDM-0340B			T1550/R1310nm	
BTSFP-WDM-3G20A	3Gbps	20km	T1310/R1550nm	
BTSFP-WDM-3G20B			T1550/R1310nm	

### SFP - CWDM Single Mode Transceiver modules

Order Number	Max. Data Rate	Distance	nm	Compatible
BT-CWDM-40-02XX	1.25Gbps	40km	1270-1610nm	
BT-CWDM-80-02XX	1.25Gbps	80km	1270-1610nm	
BT-CWDM-40-03XX	2.5Gbps	40km	1270-1610nm	
BT-CWDM-80-03XX	2.5Gbps	80km	1270-1610nm	
BT-CWDM-10-3GXX	3Gbps	10km	1270-1610nm	SDI, HD-SDI, 3G
BT-CWDM-40-3GXX	3Gbps	40km	1270-1610nm	
BT-CWDM-80-3GXX	3Gbps	80km	1270-1610nm	
BT-CWDM-10-10GXX	10Gbps	10km	1270-1610nm	

### SFP - HiLo (High/Low) CWDM SFP Transceiver modules

Order Number	Max. Data Rate	Distance	nm	Compatible
BT-3G-XX-H	3Gbps	20km	1270-1610nm	SDI, HD-SDI, 3G
BT-3G-XX-L	3Gbps	20km	1270-1610nm	

### SFP - DWDM Single Mode Transceiver modules

Order Number	Max. Data Rate	Distance	nm	Compatible
BT-DWDM-80-02XX	1.25Gbps	80km		1000 Base Ethernet
BT-DWDM-120-02XX	1.25Gbps	120km		
BT-DWDM-80-03XX	2.5Gbps	80km		OC-48, STM-16
BT-DWDM-120-03XX	2.5Gbps	120km		

\* Wavelength selectable to C-band and L-band ITU-T grid wavelengths

## Other SFPs

Order Number	Description
	<b>Video HDBNC Coaxial SFP</b>

EB30HDRT-MM	SDI SFP (emSFP) Coaxial transceiver, medium reach, MSA, HD-BNC
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## Video DIN Coaxial SFP

EB30CSRT-MM	SDI SFP (emSFP) Coaxial ransceiver medium reach, MSA, DIN 1.0/2.3
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## HDMI/DVI emSFP

EB34TD1R-SM	HDMI to 3Gbps SDI Converter
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EB34TD1T-SM	SDI to HDMI/DVI SFP Transmitter (emSFP), MSA, Type D with retention clip
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## CVBS emSFP

*Barnfind will offer an alternative solution, please contact your Barnfind Team.*

EB30CSRT-AM	CVBS SFP (emSFP) Coaxial transceiver, MSA, DIN1.0/2.3
EB30HDRT-AM	CVBS SFP (emSFP) Coaxial transceiver, MSA, HD-BNC

## Ethernet SFP

BTSFP-Gbase-CU	10/100/1000 Mbit/s
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## Stagebox: Break-Out Panel

Order Number	Description
BTSB-2RU	Barnfind stagebox frame with 10 available slots, 2RU. Includes 1 x BTSB-RJ45-LOGO (control interface).
BTSB-BASE	Blind cover for BTSB-2RU
BTSB-BNC-4x	4 x Panel mounted BNC connectors for BTSB-2RU
BTSB-LC-8x	8 x Panel mounted LC connectors for BTSB-2RU. Metal enclosure
BTSB-LEMO-CAM-NO CONNECTOR	Panel module for BTSB-LEMO-CAM for BTSB-2RU. <b>Connector not included.</b> Connector : LEMO FXW.3K SMPTE
BTSB-LEMO-CAM	Panel module for BTSB-LEMO-CAM for BTSB-2RU.
BTSB-LEMO-CCU-NO CONNECTOR	Panel module for BTSB-LEMO-CCU for BTSB-2RU. <b>Connector not included.</b> Connector : LEMO EDW.3K SMPTE
BTSB-LEMO-CCU	Panel module for BTSB-LEMO-CCU for BTSB-2RU.
BTSB-RJ45-3x	3 x Panel mounted RJ45 connectors for BTSB-2RU
BTSB-XLR-F2x	2 x Panel mounted XLR (female) connectors for BTSB-2RU.
BTSB-XLR-M2x	2 x Panel mounted XLR (male) connectors for BTSB-2RU.

## Accessories

Order Number	Description
BT-PSU-100-240AC	110~240V to 12V, 120 W Redundant PSU for BarnOne / BTF-Mini-16
BT-PSU-36-72DC	48DC to 12V, 100 W Redundant PSU for BarnOne / BTF-Mini-16

BTF1-TRAY-PSU	Tray for PSU to be mounted on the rear side of BarnOne	
BT-EXT-PAIR-5CM	Extention mounting brackets for BarnOne, 5cm deep. Price per pair	
BT-FAN-BARNONE	Fan Cassette for BarnOne	
BT-Mini-PSU	Spare PSU for BarnMini series (stand-alone)	
BT-ATT-LC-05	Attenuator for LC connectors, 5dBm	
BT-PA-LC/LC-SM-SX-0.5M (BT-PATCH-LC-50CM)	Fiber patch cables LC-LC, Single Mode, Simplex, other lenghts on request	0,5m
BT-PA-LC/LC-SM-SX-3M (BT-PATCH-LC-3M)		3m
BT-PA-LC/LC-SM-SX-5M (BT-PATCH-LC-5M)		5m
BT-PA-LC/LC-SM-SX-10M (BT-PATCH-LC-10M)		10m
BT-PA-FC/LC-SM-DX-1M	Fiber patch cables FC-LC, Single Mode, Duplex	1m
BT-PA-LC/LC-MM-DX-0.5M	Fiber patch cables LC-LC, Multi-Mode, Duplex	0,5m
FAULT LOCATOR 8-10km	Visual fault locator optical tester	10mW
BT-POWER METER-JW3208A	Portable optical power meter	range(dBm) -70~+3
BARNCLEAN	Fiber optical connector cleaner	
BARNCLEAN REFILL	Refill cassette for BarnClean	
EB00CA02-03A	cable HD-BNC to BNC	HD-BNC plug (M) to BNC Jack (F) cable adapter, 3in Belden 1855A
EB00CC04-02C	cable SFP to HDMI	HDMI type D plug to HDMI type A jack, 2M
EB00CC05-02C	cable SFP to DVI	HDMI type D plug to DVI A jack, 2M,

## BarnCare

Barnfind offers 2-YEAR standard warranty for all products in this list.

For BarnOne series (Frame, PSU, Fan Cassette), we offer **an extra 3-YEAR warranty** that can be purchased on request.

Contact us for even longer warranty requests or other support agreements!

See also **Business Partner Agreement (BPA)** for further information.

Order Number	Description
BC-BTF1-EXTRA-3	Non-discountable
BC-BTF1-EXTRA-XX	Non-discountable

Barnfind offers on-site commissioning of products delivered by Barnfind which includes training, support and configuration

BC-ONSITE-DAY	Per-day fee, exluding accomodation and transportation. Non-discountable
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