Multi-channel System Power Supply ICs for Large Panel

Part Number	Channels	Vin range	Output voltage type	Operating frequency	Features	Vmax	Temp range	ESD	OCP	Protection	Recovery	OVP	UVLO
BD8166EFV	4ch	6~18V	Variable Output	0.5MHz	Soft Start (Variable), VCOM	19V MAX.	-40~+85°C	4kV	OCP AUTO	Short Protection	Recovery T.S.D.	O.V.P.	UV LO
BD8160AEFV	4ch	8~18V	Variable Output	0.5/0.75MHz	Soft Start (Variable)	20V MAX.	-40~+85°C	4kV	OCP AUTO	Short Protection	Recovery T.S.D.	O.V.P.	UV LO
BD8165MUV	7ch	4.2~14V	Variable Output	0.65MHz	VCOM	15V MAX.	-40~+85°C	4kV	OCP AUTO	Short Protection	Recovery T.S.D.	O.V.P.	UV LO
BD8162EKV	7ch	4.2~14V	Variable Output	Variable Frequency	VCOM	15V MAX.	-40~+85°C	4kV	OCP AUTO	Short Protection	Recovery T.S.D.	O.V.P.	UV LO
BD8172MUV	5ch	4.4~14V	Fixed/Variable Output	0.5MHz		15V MAX.	-25~+105°C	4kV	OCP AUTO	Short Protection	Recovery T.S.D.	O.V.P.	UV LO
BD81002MUV	6ch	10~18V	Variable Output	0.5MHz	Power Good, Start Up Sequence, VCOM	20V MAX.	-25~+105°C	2kV		Timer Latch Short Protection	Recovery T.S.D.		UV LO
BD8174MUV	6ch	10~14V	Fixed/Variable Output	0.7MHz	Power Good, I²C, Start Up Sequence, VCOM	15V MAX.	-25~+105°C	2kV		Timer Latch Short Protection	Recovery T.S.D.	O.V.P.	UV LO

Symbol key

Channels: 1ch, 3ch, 4ch, 5ch, 6ch, 7ch, 10ch, 12ch, 14ch, 18ch

Input voltage range (Vin): 1.8-5.5V, 2.0-5.5V, 2.1~4V, 2.1~6V, 2.5-5.5V, 2.6-5.5V, 4.2~14V, 4.4~14V, 6~18V, 8~18V, 10~14V, 10~18V

Variable output voltage type: Variable 10 Output, Variable 12 Output, Variable 14 Output, Variable 18 Output, Variable Output

Fixed/Variable output voltage type: Fixed/Variable Output

Operating frequency: 0.5MHz, 0.65MHz, 0.7MHz, 1.1MHz, 1.2MHz, 0.5/0.75MHz, 0.6/1.2MHz

Variable frequency: Variable Frequency

Support auto PFM/PWM mode: PFM PWM

Adjustable soft start: SOFT START (VARIABLE)

Built-in output discharge function: DIS CHARGE

Power good function: POWER GOOD

Built-in EEPROM: EEPROM (Built in)

Built in power on sequence: START /UP SEQUENCE

I²C BUS Interface: I²C

Buffer amp for back plate bias: VCOM

Automatic data read function: AUTO READ

3-wire serial interface: 3 WIRE

Multi-channel System Power Supply ICs for Large Panel

Part No.	Supply voltage (V)	Operating temperature (°C)	Operating frequency (MHz)	Output for source voltage (V)	Output for logic voltage (V)	Output for logic voltage2 (V)	Output for gate voltage (V)	Start up sequence circuit	V COM (ch)	Package
BD8166EFV	6.0 to 18.0	−40 to +85	0.5	to 18.0	Variable	−	Variable	✔	1	HTSSOP-B40
BD8160AEFV	8.0 to 18.0	−40 to +85	0.5/0.75	to 18.0	Variable	−	Variable	✔	−	HTSSOP-B28
BD8165MUV	4.2 to 14.0	−40 to +85	0.65	to 18.0	Variable	Variable	Variable	✔	1	VQFN048V7070
BD8162EKV	4.2 to 14.0	−40 to +85	0.2 to 0.8	to 18.0	Variable	Variable	Variable	✔	1 (Buffer 4ch)	HTQFP64V
BD8172MUV	4.4 to 14.0	−40 to +105	0.5	15.6	3.3	−	⊕35.2/ ⊖Variable	✔	− (Buffer 4ch)	VQFN040V6060
BD81002MUV	10.0 to 18.0	−25 to +105	0.5	to 18.0	Variable	Variable	Variable	✔	1	VQFN048V7070
New BD8174MUV	10.0 to 14.0	−40 to +105	0.7	to 18.0	3.3	1.2/1.5/1.8	+ 35.2 − 6.0	✔	1 (Buffer 4ch)	VQFN048V7070