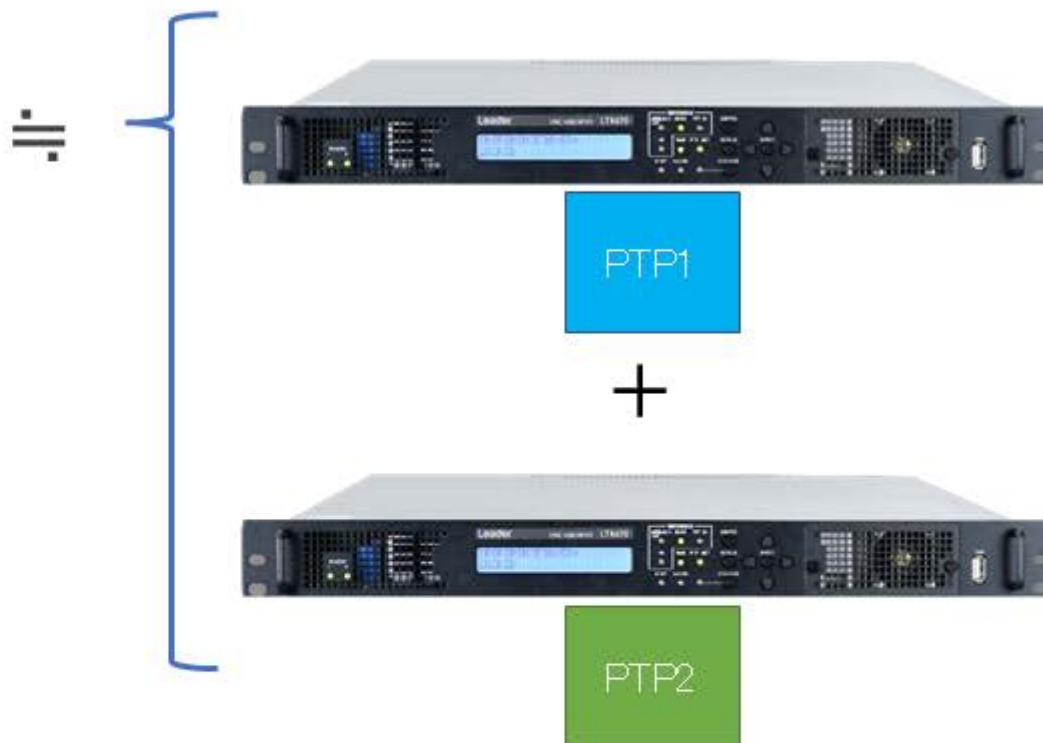
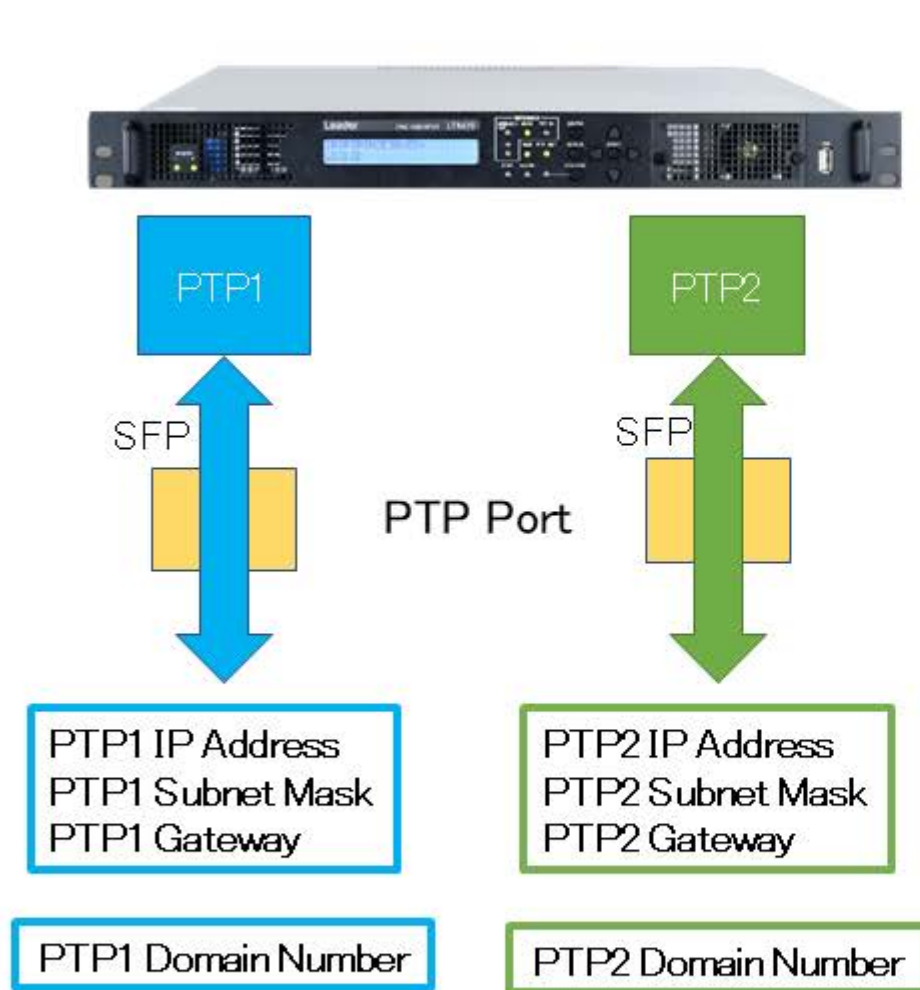


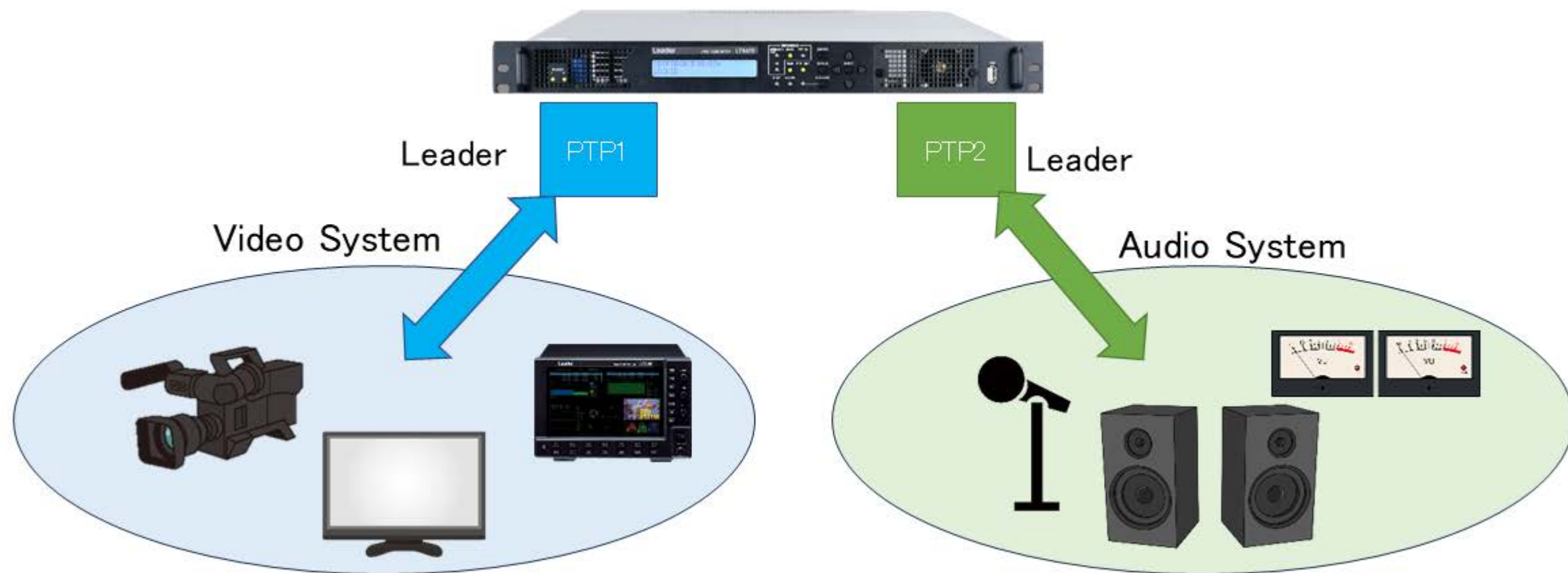
● Independent PTP Network



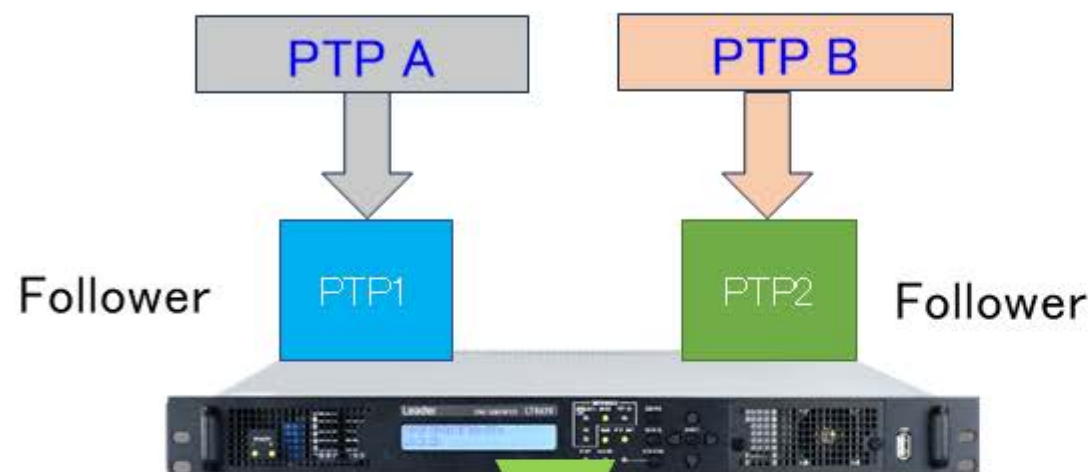
- PTPs are independent of each other, so they can be used as independent grand masters.
- PTP systems can be built as independent grand masters.
- On the PTP, it is the same as having two LT4670s.

※ Redundancy cannot be built with a single unit since there is only one standard for GNSS, etc.

- Independent PTP network use case



- Set 2 systems as followers

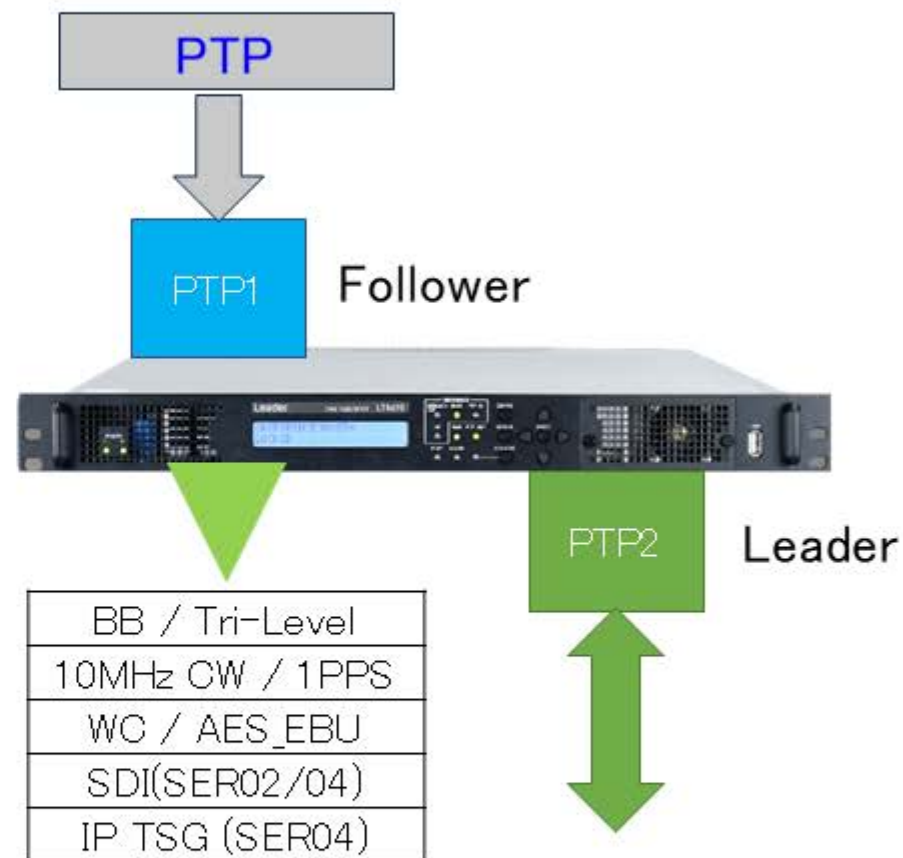


BB / Tri-Level
10MHz CW / 1PPS
WC / AES_EBU
SDI(SER02/04)
IP TSG (SER04)

Followers will be automatically selected.

- Leader and Follower settings

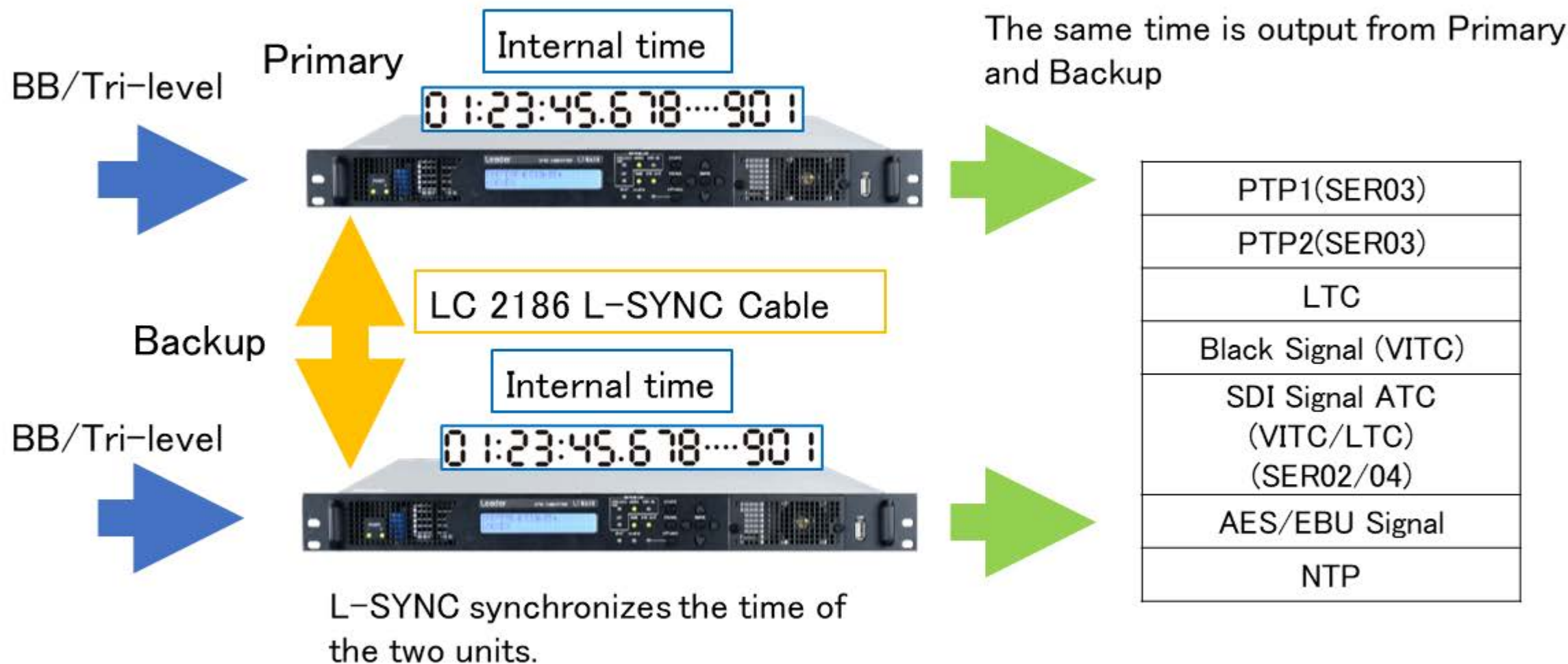
Leader



BB / Tri-Level
10MHz CW / 1PPS
WC / AES_EBU
SDI(SER02/04)
IP TSG (SER04)

PTP and other outputs synchronized to followers can be used.

- Synchronous control between devices (L-SYNC)

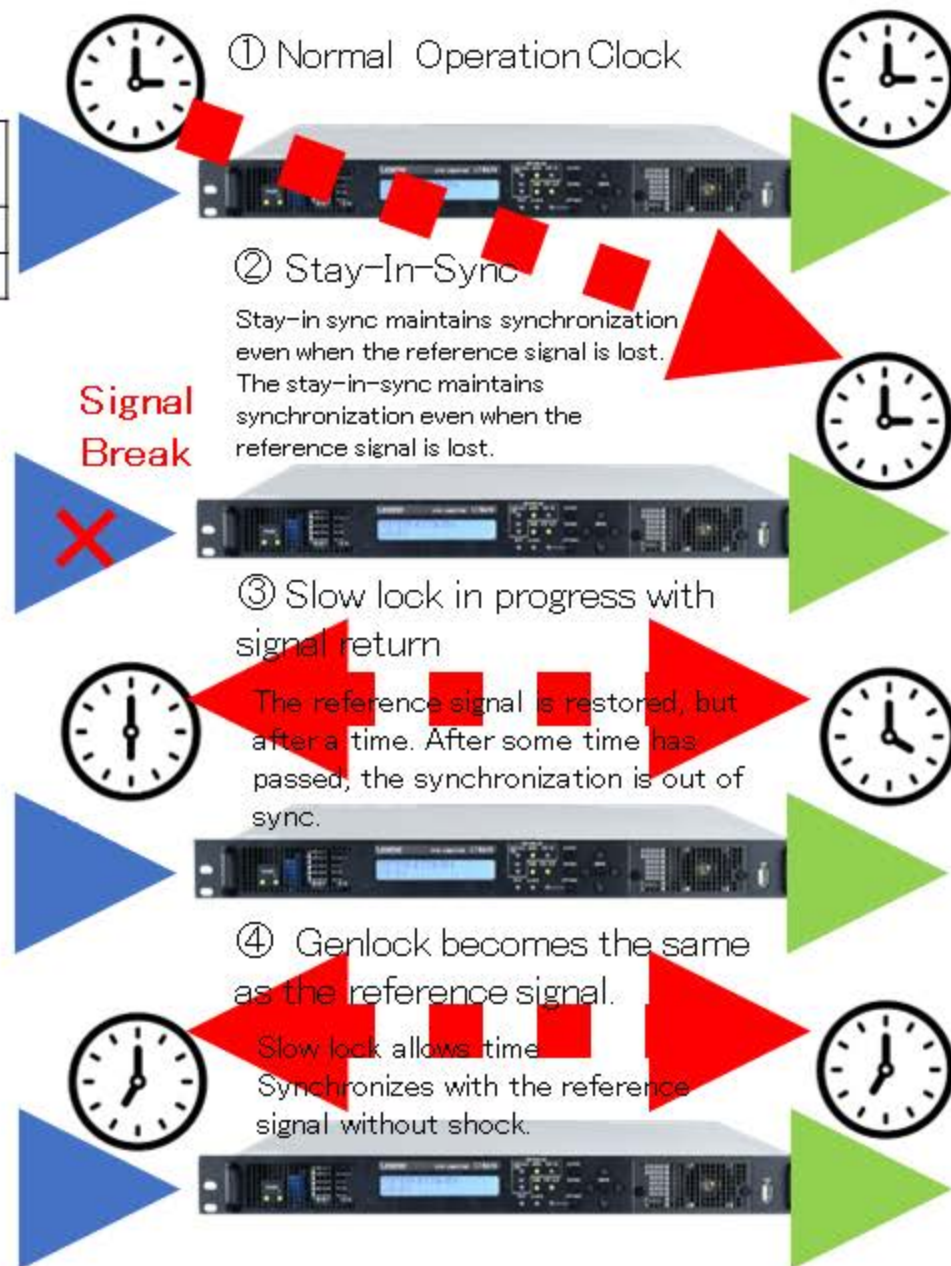


● Stay-in-Sync and slow lock functions

Leader

Reference Signal

BB / Tri-level / 10MHz CW
GNSS(SER01)
PTP1/2(SER03)



BB / Tri-Level
10MHz CW / 1PPS
WC / AES_EBU
SDI(SER02/04)
IP TSG (SER04)
PTP1/2(SER03)

● Time output based on reference signal and time source

Leader

		Time Output						
REFERENCE SOURCE	TIME SOURCE	LTC	Black Signal (VITC)	SDI Signal ATC(VITC/LTC) (SER02/04)	AES/EBU Signal	NTP	PTP1 (SER03)	PTP2 (SER03)
Internal / 10MHz CW	Internal	○	○	○	○	○	○	○
	LTC	○	○	○	○	○	○	○
	LTC ST309	○	○	○	○	○	○	○
	NTP	○	○	○	○	○	○	○
	GNSS(SER01)	○	○	○	○	○	○	○
	PTP1(SER03)	○	○	○	○	○	—	○
	PTP2(SER03)	○	○	○	○	○	○	—
BB / Tri-Level	Internal	○	○	○	○	○	○	○
	LTC	○	○	○	○	○	○	○
	VITC	○	○	○	○	○	○	○
	LTC ST309	○	○	○	○	○	○	○
	VITC ST309	○	○	○	○	○	○	○
	NTP	○	○	○	○	○	○	○
	GNSS(SER01)	○	○	○	○	○	○	○
	PTP1(SER03)	○	○	○	○	○	—	○
	PTP2(SER03)	○	○	○	○	○	○	—
GNSS(SER01)	GNSS(SER01)	○	○	○	○	○	○	○
PTP1(SER03)	PTP1(SER03)	○	○	○	○	○	—	○
PTP2(SER03)	PTP2(SER03)	○	○	○	○	○	○	—

※ When the TIME SOURCE is PTP1/PTP2, the corresponding port becomes a follower. It is used as a follower and does not become a leader.

● LED Indication Function

Leader



① GENLOCK/CW

Lights green when the reference signal is locked in GENLOCK or CW. Flashes orange until locked and lights orange during stay-in-sync.

② GNSS (SER01)

Lights green when the reference signal is locked by GNSS. Flashes orange until locked and lights orange during stay-in-sync.

③ PTP IN (SER03)

Lights green when the reference signal is locked at PTP. Flashes orange until locked and lights orange during stay-in-sync.

④ INT

Lights up green when the reference signal is INTERNAL.

⑤ TIME

Lights up green when the time is successfully obtained from the selected TIME SOURCE. Lights up orange when the time is not obtained or when the TIME SOURCE is changed.

The light turns orange when the time is not obtained or when the TIME SOURCE is changed.

⑥ PTP OUT

Lights up green when the PTP output is operating properly.

⑦ STAY

Lights up in orange during stay-in-sink.

⑧ ALARM

Lights up red during an alarm.

⑨ KEYLOCK

Lights up green during key lock.