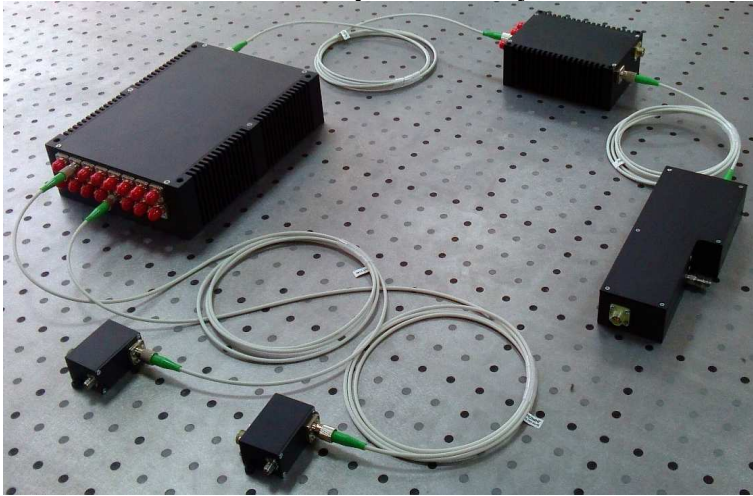


FODS

Fiber-optic distribution system for active phased arrays

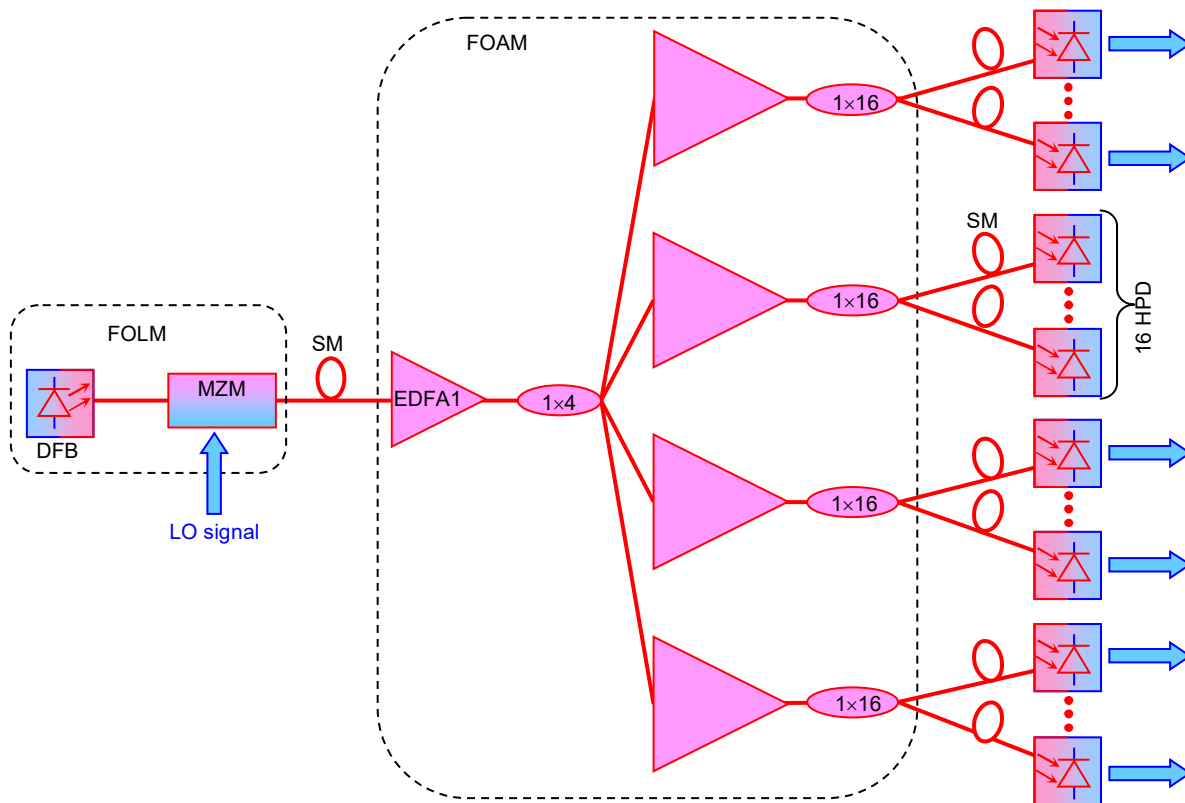


(prototype photo)

Main parameters:

- frequency range:
 - 2–10 GHz (based on modules FOLM-20 and FOPM-10)
 - 2–40 GHz (based on modules FOLM-40 and FOPM-40)
- Channel output power: >1 mW
- Output power channel-to-channel uniformity: ± 1 dB
- Relative phase drift between channels @10GHz: $< 0.5^\circ$
- Relative amplitude drift between channels @10GHz: < 0.1 dB
- Signal-to-noise ratio @10GHz: > 147 dBc/Hz
- supply voltage: ± 8 V

Functional diagram for 64 channels



FOLM – fiber-optic laser module with external optical intensity modulation
FOAM – fiber-optic amplifier module
SM – single mode optical fiber
EDFA – Er-doped fiber amplifier
1x4, 1x16 – fiber-optic splitters
HPD – high-power photodiode