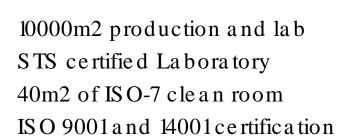






Foundation: 1958 in Locarno







AVIMand Mini-AVIM



• AVIM (1994)



Mini-AVIM (2009)





European Space Mission



- Delivered and flying
 - SMOS (AVIM PM)
 - Gaia (AVIM PM and SM)
 - Proba-2 (DMI)
- Delivered
 - Atlid (AVIM PM and Mini-AVIM PM)
 - Exomars (Mini-AVIM)
 - Meteosat Third Generation (MTG) (Mini-AVIM PM)
- In elaboration
 - Tesla-C (Mini-AVIM PM, PM-PS)
 - MTG (Mini-AVIM PM)
 - IASI NG (Mini-AVIM, AVIM TBD)
 - Merlin (TBD)

US Space Mission



- Delivered and flying
 - Mercury Laser Altimeter (AVIM)
 - Lunar Reconnaissance Orbiter (AVIM, Multifiber ferrules)
 - Mars Science Laboratory (MSL) on Curiosity (AVIM)
 - Express Logistic Carrier, ELC (AVIM)
- Delivered
 - IceSat2 (Atlas) (AVIM, multifiber ferrule, IMOD)
- In elaboration
 - GEDI (AVIM, multifiber ferrule, IMOD)

Fiberassemblies



Patchcords and Pigtail with PEEK 1mm loose tube

Type/core	Cladding	Numerical Aperture	Coating	Wavelength	notes
SM	80um, 125um	0.08 to 0.31	250um to 400um, acrylate Polyimide Metalized	405nm to 1625nm	Qualified
PM, PZ	80um, 125um	0.12	250um to 400um, acrylate Polyimide 405nm to 1625nm Qualified Metalized		Qualified
MM50 SI	80um, 125um	0.22	250um to 400um, acrylate Polyimide Metalized	rylate 850nm, 1310nm	
MM50 GI	80um, 125um	0.27	250um to 400um, acrylate Polyimide Metalized	850nm, 1310nm	
MM62.5 GI	80um, 125um	0.27	250um to 400um, acrylate Polyimide Metalized	yimide 850nm, 1310nm	
MM105 SI	125um, 140um	0.22	250um to 400um, acrylate Polyimide Metalized	850nm, 1310nm	
ММ	up to 800um		Acrylate, polyimide, metallized customer defined Application pending, con Diamond ferrule		Application pending, compatible with Diamond ferrule

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Third Party Modules

Module type	Fiber	Status	Notes
	SM	2	
Coupler	PM	V	MTG
	MM	~	
Optical Modulator	SM	~	
Optical Modulator	PM	V	Delivered
Laser diodes	SM	$\overline{\checkmark}$	Via pigtails, delivered
Laser diodes	PM	V	Via pigtails, delivered
Isolator	SM	~	Exit connector easy, entry difficult.
Delay lines	SM	~	In elaboration
Attenuator	SM	2	via offset splice, similar to patchcord
Attenuator	PM	V	via offset splice, similar to patchcord
Detectors	SM	~	Via pigtails
Detectors	PM	~	

☑ Delivered

Compatible

Not compatible





Dia mond de ve lopment list

- Cable version of the Mini-AVIM,
 - But for which cable?
- High power optical interface for Mini-AVIM
 - SM, PM (up to 6W)
 - MM105 (up to 40W)
- Multi-fiber ferrules (AVIM and Mini-AVIM)
- Multi-Channel connectors
- High temperature version (+125°C)